

WATTENBERG DISPOSAL, LLC

DENVER ENERGY CENTER

1675 BROADWAY, 28TH FLOOR

DENVER, COLORADO 80202-4628

TELEPHONE (303) 825-4822

FACSIMILE (303) 825-4825

WWW.KPK.COM

September 8, 2015

Gary Wang
Technical Enforcement Program – UIC
U.S. Environmental Protection Agency Region 8
1595 Wynkoop Street, Mail code 8ENF-W
Denver, CO 80202-1129

**RE: Request for New Additions for Water Sources
Class I Non-Hazardous Waste Disposal Well Permit No. CO10938-02115
Wattenberg Disposal, LLC**

Dear Mr. Wang:

Wattenberg Disposal, LLC (Wattenberg) is submitting water source analyses from facilities with new formation Class II fluids that will be disposed of at the Suckla Farms #1 disposal well. These facilities include:

<u>Facility</u>	<u>Location</u>
1) WOOLLEY #1, 2	NENE S34 T2N R68W
2) MAHONEY #1, 2, MAHONEY-PERRIN #1, 2	NENE S20 T2N R67W
3) WALSH #2, 3, 4, 5	SWSW S24 T2N R68W

The three (3) facilities listed above are exploration and production well site tank batteries owned and operated by K.P. Kauffman Company, Inc. The waste fluid being disposed of is produced water, which has been separated from the comingled liquid stream produced from each facility's associated wellhead(s).

Pursuant to Permit No. CO10938-02115 Part II, Section D.5.a.(ii), Wattenberg requests approval for disposal of fluids from the new source waters listed above. A water analysis has been attached for each facility which consists of total dissolved solids, pH, specific gravity, and specific conductivity.

If you have any questions or comments, please contact me at (303) 825-4822 or at slaramesa@kpk.com.

Sincerely,
Wattenberg Disposal, LLC



Susana Lara-Mesa
Vice President of Engineering

Enclosures: New Source Waters Analyses

cc: Don Breffle - U.S. Environmental Protection Agency Region 8
KPK Files

GREEN	BLUE	COI
	2	

Test Report

eANALYTICS
L A B O R A T O R Y

September 8, 2015

Client: K.P. Kauffman Company, Inc.

Project: Wattenberg New Sources

Lab ID: 3859

Date Samples Received: 9/4/2015

Number of Samples: 3

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,



Christopher Dieken
Quality Assurance Manager



Todd Rhea
Laboratory Manager

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

The results contained within this report relate only to the items analyzed.

Chain of Custody

eANALYTICS

LABORATORY

Chain of Custody For

eANALYTICS LABORATORY			ANALYSIS INFORMATION																											
CLIENT INFORMATION			ANALYSIS INFORMATION																											
4130 Clydesdale Parkway Loveland CO 80538 Phone: (970) 667-6975 Fax: (970) 669-0941 www.eAnalyticsLab.com			(Select analysis by checking box on corresponding sample line)																											
Company: K.P. KAUFFMAN COMPANY Project: WATTEBERG NEW SOURCES Send Report To: SUSI LARA-MESA (SLARAMESA@CPK.COM) Send Invoice To: SUSI LARA-MESA Phone/Email: 303.825.4022 Address: 1675 Broadway, Ste 2800 DENVER, CO 80127-8022			<table border="1"> <tr> <td>Number of Containers</td> <td>Metals (As) Soil (As) Water (As)</td> <td>BTEX, NTHB / TPH (PAHs)</td> <td>BTEX, TPH (PAHs)</td> <td>TPH (PAHs)</td> <td>Volatiles - Full List (PAHs)</td> <td>Semi-Volatiles Full List (PAHs)</td> <td>PAHs (PAHs)</td> <td>Oil & Grease (PAHs)</td> <td>TPH (PAHs)</td> <td>Total BTEX Metals (PAHs)</td> <td>TPH (PAHs)</td> <td>Vapor-Sol Vapor BTEX (PAHs)</td> <td>Vapor Emissions BTEX, TPH (PAHs)</td> <td>pH/TSS/TDS</td> <td>SPECIAL CONDUCTIVITY / SPECIAL GRAVITY</td> </tr> </table>												Number of Containers	Metals (As) Soil (As) Water (As)	BTEX, NTHB / TPH (PAHs)	BTEX, TPH (PAHs)	TPH (PAHs)	Volatiles - Full List (PAHs)	Semi-Volatiles Full List (PAHs)	PAHs (PAHs)	Oil & Grease (PAHs)	TPH (PAHs)	Total BTEX Metals (PAHs)	TPH (PAHs)	Vapor-Sol Vapor BTEX (PAHs)	Vapor Emissions BTEX, TPH (PAHs)	pH/TSS/TDS	SPECIAL CONDUCTIVITY / SPECIAL GRAVITY
Number of Containers	Metals (As) Soil (As) Water (As)	BTEX, NTHB / TPH (PAHs)	BTEX, TPH (PAHs)	TPH (PAHs)	Volatiles - Full List (PAHs)	Semi-Volatiles Full List (PAHs)	PAHs (PAHs)	Oil & Grease (PAHs)	TPH (PAHs)	Total BTEX Metals (PAHs)	TPH (PAHs)	Vapor-Sol Vapor BTEX (PAHs)	Vapor Emissions BTEX, TPH (PAHs)	pH/TSS/TDS	SPECIAL CONDUCTIVITY / SPECIAL GRAVITY															
Lab ID	Sample Name	Sampling Date																												
1	WOOLLEY 1,2	9-1-15																												
2	MAHONEY-PERRIN 1,2	9-1-15																												
3	WASH 2,3,4,5	9-1-15																												
Comments:																														
Turnaround Time (Business Days) (TAT begins when sample is received by eANALYTICS) <input type="radio"/> Normal (5-10 Days) <input checked="" type="radio"/> 3 Day (25%) <input type="radio"/> 2 Day (50%) <input type="radio"/> 1 Day (100%) <input type="radio"/> Same Day (300%)			Record of Custody Requisitioned by: <i>[Signature]</i> Date: 9-4-15 Company: K.P.K. Time: 12:10 Received by: _____ Date: _____ Company: _____ Time: _____ Requisitioned by: _____ Date: _____ Company: _____ Time: _____ Received by: <i>[Signature]</i> Date: 9/4/15 Company: eANALYTICS Time: 12:18																											
For eANALYTICS Use Samples Received Intact: Yes / No Received Within Temperature Range (2-6°C): Yes / No Sample Preservative: Ice / Acid / None / Other																														

Lab ID # **3859**
 eAnalytics Laboratory
 4130 Clydesdale Parkway Loveland CO 80538
 (970) 667-6975

Page ____ of ____

eAnalytics Laboratory
 4130 Clydesdale Parkway Loveland CO 80538

The results contained within this report relate only to the items analyzed.

eANALYTICS
LABORATORY

Client: K.P. Kauffman Company, Inc.

Lab ID: 3859

Project: Wattenberg New Sources

Analysis: pH
Specific Conductance
Total Dissolved Solids
Specific GravityMethod: EPA150.1
EPA120.1
EPA160.1
ASTMD1298

Sample Name	pH	EC	TDS	Specific Gravity	Date Sampled	Date Analyzed	Lab ID
	su	mmhos/cm	mg/L	mg/L			
Woolley 1,2	7.2	58.5	37520	1.038	09/01/15	09/04/15	3859 1
Mahoney-Perrin 1,2	7.3	69.9	44805	1.044	09/01/15	09/04/15	3859 2
Walsh 2,3,4,5	7.1	70.4	45113	1.045	09/01/15	09/04/15	3859 3

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

The results contained within this report relate only to the items analyzed.

WATTENBERG DISPOSAL, LLC

DENVER ENERGY CENTER
1675 BROADWAY, 28TH FLOOR
DENVER, COLORADO 80202-4628
TELEPHONE (303) 825-4822
FACSIMILE (303) 825-4825
WWW.KPK.COM

September 8, 2015

Gary Wang
Technical Enforcement Program – UIC
U.S. Environmental Protection Agency Region 8
1595 Wynkoop Street, Mail code 8ENF-W
Denver, CO 80202-1129

RE: Request for New Additions for Water Sources
Class I Non-Hazardous Waste Disposal Well Permit No. CO10938-02115
Wattenberg Disposal, LLC

Dear Mr. Wang;

Wattenberg Disposal, LLC (Wattenberg) is submitting water source analyses from facilities with new formation Class II fluids that will be disposed of at the Suckla Farms #1 disposal well. These facilities include:

<u>Facility</u>	<u>Location</u>
1) TANG #1	NWSW S23 T1N R67W
2) DACANO #1-3	SENE S1 T1N R68W
3) FREDERICK #1, 4	SWSE S24 T2N R68W
4) PARKER #1 & 2	NWSE S19 T2N R66W
5) LAURIDSON #1A & 2A	NESE S18 T1N R67W
6) COSSLETT #1, 2	NENE S2 T1N R68W
7) DECHANT STATE #1-7	SWNW S16 T2N R67W
8) DECHANT STATE (CODELL) #1-7	SWNW S16 T2N R67W
9) MILLARD #43-30	NESE S30 T2N R66W
10) NEFF #1 & 2	NESE S19 T2N R66W
11) CAMENISCH #1 SX	SWSW S2 T1N R67W
12) MCCONAHAY #33-34	NESE S34 T2N R66W
13) BECKY #1-5	NENW S6 T1N R68W

The 13 facilities listed above are exploration and production well site tank batteries owned and operated by K.P. Kauffman Company, Inc. The waste fluid being disposed of is produced water, which has been separated from the comingled liquid stream produced from each facility's associated wellhead(s).

GREEN	BLUE	CBI
	2	

Pursuant to Permit No. CO10938-02115 Part II, Section D.5.a.(ii), Wattenberg requests approval for disposal of fluids from the new source waters listed above. A water analysis has been attached for each facility which consists of total dissolved solids, pH, specific gravity, and specific conductivity.

If you have any questions or comments, please contact me at (303) 825-4822 or at slaramesa@kpk.com.

Sincerely,
Wattenberg Disposal, LLC



Susana Lara-Mesa
Vice President of Engineering

Enclosures: New Source Waters Analyses

cc: Don Breffle - U.S. Environmental Protection Agency Region 8

KPK Files

Test Report

eANALYTICS
LABORATORY

September 3, 2015

Client: K.P. Kauffman Company, Inc.

Project: Wattenberg Disposal New Sources

Lab ID: 3837

Date Samples Received: 9/1/2015

Number of Samples: 13

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,



Christopher Dieken
Quality Assurance Manager



Todd Rhea
Laboratory Manager

eAnalytics Laboratory
4130 Clydesdale Parkway Loveland CO 80538

The results contained within this report relate only to the items analyzed

Chain of Custody

eANALYTICS

LABORATORY

Chain of Custody F

eANALYTICS LABORATORY			4130 Clydesdale Parkway Loveland CO 80538 Phone: (970) 667-6975 Fax: (970) 669-0941 www.eAnalyticslab.com											
CLIENT INFORMATION			ANALYSIS INFORMATION											
Company: K.P. Kauffman Company, Inc. Project: WATTENBERG DISPOSAL NEW SOURCES Project Manager: SUSANA LARA-MESA Sampler: MAX KNOP Phone/Email: 303-825-4822 Address: 1675 Broadway St #2800 Denver, CO 80202			(Select analysis by checking box on corresponding sample line) Other Analysis:											
Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Mats (S) Soil (W) Water (V) Vapor (O) Other	BTX (EPA 8260)	TPH (EPA 8015)	Electrical Conductivity	pH	SAR	COC (Baseline Water Testing)	SPECIFIC GRAVITY	SPECIFIC CONDUCTIVITY	PH	TDS
1	TANG #1	8/31/15 10:20 AM												
2	DACANO #1-3	9:02 AM												
3	FREDERICK #1, 4	11:26 AM												
4	PARKER #1; 2	10:15 AM												
5	LAURIDSON #1; 2A	1:45 PM												
6	COSSLETT #1, 2	9:29 AM												
7	DECHANT STATE #1-7	10:45 AM												
8	DECHANT STATE (CODED) #1-7	10:55 AM												
9	MILLARD #43-30	12:10 PM												
10	NEFF #1; 2	12:42 PM												
11	CAMENISIA #1	2:08 PM												
12	MCCONAHAY #33-34	11:35 AM												
13	BECKY #1, 5	12:15 PM												

Comments:

Turnaround Time (Business Days) TAT begins when sample is received by eANALYTICS <input type="radio"/> Normal (5-10 Days) <input checked="" type="radio"/> 3 Day (25%) <input type="radio"/> 2 Day (50%) <input type="radio"/> 1 Day (100%) <input type="radio"/> Same Day (300%) Rush analysis requires an extra charge If possible please inform eANALYTICS in advance for rush analysis.	Record of Custody Relinquished by: <u>4470</u> Company: <u>K.P. KAUFFMAN CO</u> Received by: Company: Relinquished by: Company: Received by: <u>[Signature]</u> Company: <u>eANALYTICS</u>	Date: <u>9/1/15</u> Time: <u>9:00</u> AM Date: <u>9/1/15</u> Time: <u>9:00</u> AM
Colorado OPS Project: Yes / No For eANALYTICS Use Samples Received Intact: <u>Yes</u> No Received Within Temperature Range (2-6°C): <u>Yes</u> No Sample Preservative: Ice None Acid Other		

WO # 3837

eANALYTICS: Environmental testing made Easy

Page 1 of 1

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

The results contained within this report relate only to the items analyzed

Page 2 of 3

eANALYTICS

LABORATORY

Client: K.P. Kauffman Company, Inc.

Lab ID: 3682

Project: Wattenberg Disposal New Sources

 Analysis: pH
 Specific Conductance
 Total Dissolved Solids
 Specific Gravity

 Method: EPA150.1
 EPA120.1
 EPA160.1
 ASTM D1298

Sample Name	pH	EC	TDS	Specific Gravity	Date Sampled	Date Analyzed	Lab ID
	su	mmhos/cm	mg/L	mg/L			
Tang #1	6.4	37.3	23965	1.024	08/31/15	09/02/15	3682 1
Dacano #1-3	6.3	36.1	23085	1.023	08/31/15	09/02/15	3682 2
Frederick #1, 4	6.5	20.9	13601	1.013	08/31/15	09/02/15	3682 3
Parker #1&2	6.4	33.5	21355	1.021	08/31/15	09/02/15	3682 4
Lauridson 1A&2A	6.7	41.0	26948	1.026	08/31/15	09/02/15	3682 5
Cosslett #1, 2	6.4	38.6	24941	1.025	08/31/15	09/02/15	3837 6
Dechant State #1-7	6.3	37.6	24151	1.023	08/31/15	09/02/15	3837 7
Dechant State (Codell) #1-7	6.1	18.3	11824	1.012	08/31/15	09/02/15	3837 8
Millard #43-30	6.5	37.8	24034	1.024	08/31/15	09/02/15	3837 9
Neff #1&2	6.2	35.4	22978	1.023	08/31/15	09/02/15	3837 10
Camenisch #1	6.7	31.7	20399	1.019	08/31/15	09/02/15	3837 11
McConahay #33-34	7.2	40.0	25778	1.026	08/31/15	09/02/15	3837 12
Becky #1,5	8.3	19.2	12414	1.012	08/31/15	09/02/15	3837 13

eAnalytics Laboratory

4130 Clydesdale Parkway, Loveland CO 80538

The results contained within this report relate only to the items analyzed



COLORADO

Department of Public
Health & Environment

Dedicated to protecting and improving the health and environment of the people of Colorado

September 29, 2015

RECEIVED

OCT 06 2015

Office of Enforcement, Compliance
and Environmental Justice (Water)

Mr. Arturo Palomares, Director
United States Environmental Protection Agency, Region 8
Water Technical Enforcement Program
Office of Enforcement, Compliance and Environmental Justice
1595 Wynkoop Street
Denver, CO 80202-8917

Ms. Susana Lara-Mesa
Vice President of Engineering
K.P. Kauffman Company, Inc.
World Trade Center
1675 Broadway, 28th Floor
Denver, CO 80202-4628

CO10938-02115

RE: Notification of Approval to Inject Class II Produced Water
Wattenberg Disposal Facility
SW/WLD/WTB 1.1

Ms. Lara-Mesa,

The Colorado Department of Public Health and Environment (the "Department") Hazardous Materials and Waste Management Division (the "Division") received the following notification to inject Class II produced water from sixteen (16) production tank batteries owned by K.P. Kauffman Company, Inc. (the "Notification") at the Wattenberg Disposal Facility (the "Facility") located at 4468 Weld County Road, Weld County, Colorado.

Untitled Letter (EPA UIC Class II Injection Well Approval for Produced Water Injection from 16 Production Tank Batteries). Prepared by: U.S.E.P.A., Region 8. Document dated: September 21, 2015. Document received: September 25, 2015.

The Division reviewed the above referenced Notification. Thank you for this update regarding Facility operations.

Please note that the State of Colorado permitting contact for this site has changed. All correspondence for the Facility can be sent to:

Mr. Eric Jacobs, P.G.
Colorado Department of Public Health and Environment
HMWMD-B2
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530
eric.jacobs@state.co.us

GREEN	BLUE	CBI
	2	



We appreciate this Notification and ask the Facility to forward the documentation referenced in the Notification to the Division (via e-mail is possible).

Note that the Department is authorized to bill for its review of technical submittals pursuant to Section 1.7 of the Regulations Pertaining to Solid Waste Sites and Facilities (6 CCR 1007-2). An invoice for the Division's review of the above referenced documents will be transmitted under separate cover. Our fees and billing ceilings may be viewed online at <https://www.colorado.gov/pacific/cdphe/solid-waste-regulations>.

Should you have any questions regarding determination made herein contact Eric Jacobs at 303-692-3430 or by email at eric.jacobs@state.co.us.

Sincerely,



Eric K. Jacobs, P.G.
Solid Waste Permitting Unit
Hazardous Materials and Waste Management Division

ec: Gary Wang, U.S.E.P.A. Region 8



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

MAR 20 2015

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-4913
RETURN RECEIPT REQUESTED

Ms. Susana Lara-Mesa
Engineering Project Manager
K.P. Kauffman Company, Inc.
1675 Broadway, Suite 2800
Denver, CO 80202-4825

Re: Underground Injection Control (UIC)
Approval of New Source
Suckla Farms #1 Class I Injection Well
EPA Permit #CO10938-02115
Weld County, Colorado

Dear Ms. Lara-Mesa:

The Environmental Protection Agency (EPA) has reviewed the emails and attached fluid analyses, dated February 25, 2015 and March 17, 2015, wherein Wattenberg Disposal, LLC, as a part of K.P. Kauffman Company, Inc., requested authorization to inject produced brine fluid from eight new sources, Noel #3-18, Koester #3-33-3, Pace Connelly #3&8, Briggs #1, UPRR Pan Am N #4, Bauer/Eiberger, Ocoma and Jack C. Noel. Your attachments included the required laboratory analyses for total dissolved solids, pH, specific conductance, and specific gravity for these sources. After review of these analyses, and pursuant to the above-referenced permit at Part II(C)(6)(c), EPA approves of this new source for injection into the above-referenced injection.

Failure to comply with UIC regulations found at Title 40 of the Code of Federal Regulations, Parts 144 and 146 (40 C.F.R. Parts 144 and 146) constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.

TAB	GREEN	BLUE	CBI
		1	

If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely,



Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Caren Johannes
Solid Waste and Materials Management Unit
Hazardous Materials & Waste Management Division HMWMD-B2
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246



Inspection Report For Well: **CO10938 - 02115**

U.S. Environmental Protection Agency
Underground Injection Control Program, 8ENF-T
999 18th Street, Suite 300, Denver, CO 80202-2466
This form was printed on 4/24/2015

INSPECTOR(S): Lead: Breffle, Don Date: 4/23/2015
Others: Wang, Gary Time: 9:35 am / pm
OPERATOR (only if different): Bill Dean
REPRESENTATIVE(S): _____

PRE-INSPECTION REVIEW			
Wattenberg Disposal, LLC			
Well Name:	Suckla Farms #1 (Wattenberg)		
Well Type:	Non-Hazardous Waste Disposal (11)		
Operating Status:	UC (UNDER CONSTRUCTION) as of 12/1/2014		
Oil Field:	Spindle		
Location:	SENW S10 T1N R67W		
Indian Country:	UNKNOWN		
Last Inspection:	3/26/2013	Allowable Inj Pressure:	3700 /
Last MIT:	Pass 5/14/2014	Annulus Pressure From Last MIT:	950

BLACK = POSSIBLE VIOLATION GRAY = DATA MISSING

INSPECTION TYPE: (Select One) ☐ Construction / Workover ☐ Response to Complaint ☐ Other
☐ Plugging ☒ Routine ICIS Entered
☐ Post-Closure ☐ Witness MIT Date 5/1/15
Initials JB

OBSERVED VALUES:

OP 250 PSI 0-2000

Tubing Gauge:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: <u>U: 200 / L:</u> psig Gauge Range: <u>0 - 5000</u> psig	Gauge Owner: <input checked="" type="checkbox"/> EPA <input type="checkbox"/> Operator
Annulus Gauge:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: <u>120 95 EPA</u> psig Gauge Range: <u>Circle Chart</u> psig	Gauge Owner: <input checked="" type="checkbox"/> EPA <input checked="" type="checkbox"/> Operator
Bradenhead Gauge:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: <u>100</u> psig Gauge Range: <u>0 - 300</u> psig	Gauge Owner: <input type="checkbox"/> EPA <input checked="" type="checkbox"/> Operator
Pump Gauge:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: _____ psig Gauge Range: _____ psig	Gauge Owner: <input type="checkbox"/> EPA <input type="checkbox"/> Operator

Operating Status: B ☒ Active ☒ Not Injecting ☐ Plugged and Abandoned
(Select One) ☐ Being Reworked ☐ Production ☐ Under Construction

U2 Entered

Date

Initial

See page 2 for photos, comments, and site conditions

	GREEN	BLUE	CBI
TAB		<input checked="" type="checkbox"/>	

Inspection Report For Well: CO10938 - 02115 (PAGE 2)

PHOTOGRAPHS:

☒ Yes
☐ No

List of photos taken: _____

1 Bradenhead gauge 2 wellhead gauge
3 circle chart 4 E&A gauge on annulus

Comments and site conditions observed during inspection: _____

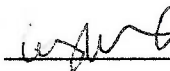
with 1 pump running, injection pressure is about 420 psi
with 2 pumps running, injection pressure is about 800 psi

Kill switch set at 1200 psi

operator cell 970-371-4970

GPS: GPS File ID: _____

Signature of EPA Inspector(s):



☐ Data Entry

☐ Compliance Staff

☐ Hard Copy Filing

NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII, 999 18TH STREET - SUITE 500
DENVER, COLORADO 80202-2405

Date: 4/23/15

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 9:53

Firm Name: Wattenberg Disposal

Firm Address: Denver, CO

REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

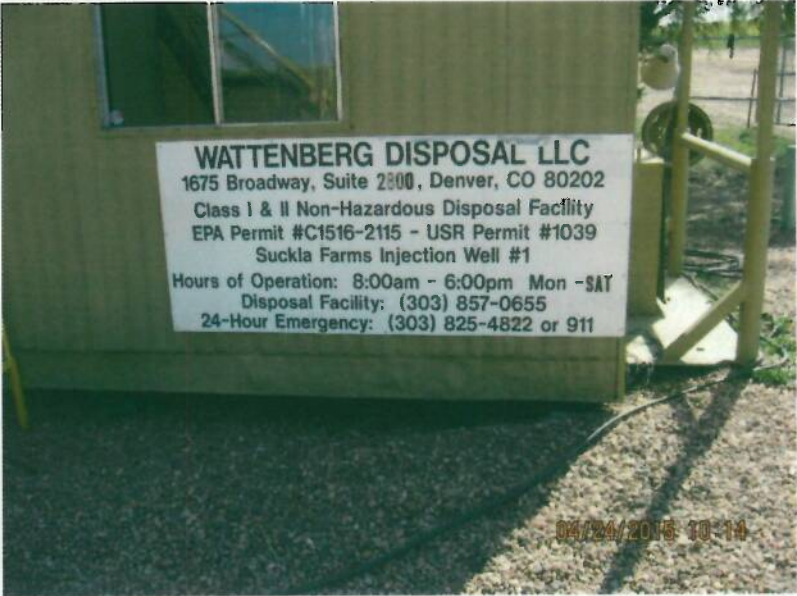
Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.


Don Brette
Inspector's Name & Title (Print)


Gary Wang

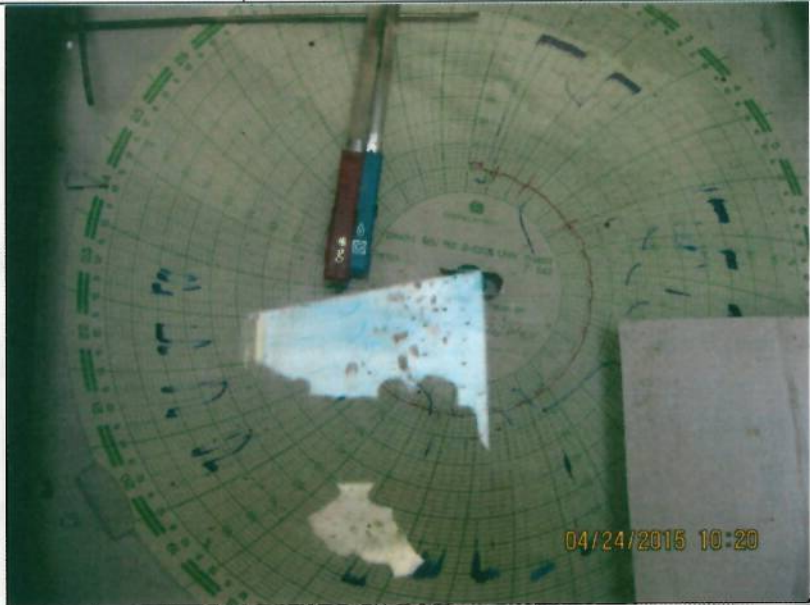
Don Brette
Inspector's Signature


Wang

U.S. Environmental Protection Agency Region 8		UIC PHOTOGRAPHIC LOG	
Facility Location: Wattenberg Disposal		Photographer: Gary Wang	Camera:
Dates Photographs Were Taken: 4/24/2015			
Photo No. 1 of 5	Time: 10:14		
Direction Photo Taken: East			
Photo Description: Wattenberg Disposal facility and well information			

U.S. Environmental Protection Agency Region 8		UIC PHOTOGRAPHIC LOG	
Facility Location: Wattenberg Disposal		Photographer: Gary Wang	Camera:
Dates Photographs Were Taken: 4/24/2015			
Photo No. 2 of 5	Time: 10:20		
Direction Photo Taken:			
Photo Description: Operator's gauge in bradenhead reads ~100 psi.			

U.S. Environmental Protection Agency Region 8		UIC PHOTOGRAPHIC LOG	
Facility Location: Wattenberg Disposal		Photographer: Gary Wang	Camera:
Dates Photographs Were Taken: 4/24/2015			
Photo No. 3 of 5	Time: 10:20		
Direction Photo Taken:			
Photo Description: Tubing pressure reading ~200 psi. Well was not injecting during inspection			

U.S. Environmental Protection Agency Region 8		UIC PHOTOGRAPHIC LOG	
Facility Location: Wattenberg Disposal		Photographer: Gary Wang	Camera:
Dates Photographs Were Taken: 4/24/2015			
Photo No. 4 of 5	Time: 10:20		
Direction Photo Taken:			
Photo Description: Chart Recorder			

Facility Location: Wattenberg Disposal		Photographer: Gary Wang	Camera:
Dates Photographs Were Taken: 4/24/2015			
Photo No. 5 of 5	Time: 10:23		
Direction Photo Taken:			
Photo Description: EPA's gauge in annulus reads ~95 psi.			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

SEP 21 2015

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2600-8534
RETURN RECEIPT REQUESTED

Ms. Susana Lara-Mesa
Engineering Project Manager
K.P. Kauffman Company, Inc.
1675 Broadway, Suite 2800
Denver, CO 80202-4825

Re: Underground Injection Control (UIC)
Approval of New Source
Suckla Farms #1 Class I Injection Well
EPA Permit #CO10938-02115
Weld County, Colorado

Dear Ms. Lara-Mesa:


The Environmental Protection Agency (EPA) has reviewed the emails and attached fluid analyses, dated September 8, 2015, wherein Wattenberg Disposal, LLC, as a part of K.P. Kauffman Company, Inc., requested authorization to inject Class II produced water from sixteen production tank batteries owned and operated by K.P. Kauffman Company, Inc. Your attachments included the required laboratory analyses for total dissolved solids, pH, specific conductance, and specific gravity for these sources. After review of these analyses, and pursuant to the above-referenced permit at Part II(C)(6)(c), the EPA approves of this new source for injection into the above-referenced injection.

Failure to comply with UIC regulations found at Title 40 of the Code of Federal Regulations, Parts 144 and 146 (40 C.F.R. Parts 144 and 146) constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

TAE	GREEN	BLUE	CBI
		1	

If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely,



Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Caren Johannes
Solid Waste and Materials Management Unit
Hazardous Materials & Waste Management Division HMWMD-B2
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

JUN 09 2015

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2600-8862
RETURN RECEIPT REQUESTED

Ms. Susana Lara-Mesa
Engineering Project Manager
K.P. Kauffman Company, Inc.
1675 Broadway, Suite 2800
Denver, CO 80202-4825

Re: Underground Injection Control (UIC)
Approval of New Source
Suckla Farms #1 Class I Injection Well
EPA Permit #CO10938-02115
Weld County, Colorado

Dear Ms. Lara-Mesa:

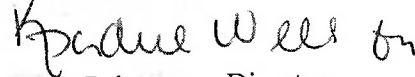
The Environmental Protection Agency (EPA) has reviewed the emails and associated fluid analyses, dated May 12, 2015 and June 4, 2015, wherein Wattenberg Disposal, LLC, as a part of K.P. Kauffman Company, Inc., requested authorization to inject water from the Roggen to Lochbuie hydro-test location owned and operated by DCP Midstream, LLC. Your attachments included the required laboratory analyses for total dissolved solids, pH, specific conductance, and specific gravity for these sources. After review of these analyses, and pursuant to the above-referenced permit at Part II(C)(6)(c), the EPA approves of this new source for injection into the above-referenced injection.

Failure to comply with UIC regulations found at Title 40 of the Code of Federal Regulations, Parts 144 and 146 (40 C.F.R. Parts 144 and 146) constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.



If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely,



Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Caren Johannes
Solid Waste and Materials Management Unit
Hazardous Materials & Waste Management Division HMWMD-B2
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246



WATTENBERG DISPOSAL, LLC

WORLD TRADE CENTER

1675 BROADWAY, 28TH FLOOR

DENVER, COLORADO 80202-4628

TELEPHONE (303) 825-4822

FACSIMILE (303) 825-4825

WWW.KPK.COM

May 12, 2015

Linda Bowling
Technical Enforcement Program – UIC
U.S. Environmental Protection Agency Region 8
1595 Wynkoop Street, Mail code 8ENF-W
Denver, CO 80202-1129

RE: Wattenberg Disposal, LLC
Class I Non-Hazardous Waste Disposal Well Permit No. CO10938-02115

Dear Ms. Bowling;

Wattenberg Disposal, LLC is submitting water source analyses from the Roggen to Lochbuie hydro-test location owned and operated by DCP Midstream, LLC. The water from this location is new formation Class II fluids that will be disposed of at the Suckla Farms #1 disposal well.

The Roggen to Lochbuie hydro-test location holds 56,000 gallons of hydro-test water that is stored in four (4) separate holding tanks located just north of the intersection of Weld County Road 18 and Weld County Road 63.

Pursuant to Permit No. CO10938-02115 Section 5.a.(ii), Wattenberg Disposal, LLC requests approval for disposal of fluids from the Roggen to Lochbuie hydro-test location. A water analysis has been attached for each of the four (4) holding tanks, which consists of total dissolved solids, pH, specific gravity, and specific conductivity.

If you have any questions or comments, please contact me at (303) 825-4822 or at slaramesa@kpk.com.

Sincerely,
Wattenberg Disposal, LLC

	GREEN	BLUE	CBI
TAB		2	

Susana Lara-Mesa
Vice President of Engineering

Enclosures: New Source Waters Analyses

cc: KPK files



Ft. Collins, Colorado

LIMS Version: 6.760

Page 1 of 1

Friday, May 01, 2015

Branden Hayes
DCP Midstream, LP
3026 4th Avenue
Greeley, CO 80631

Re: ALS Workorder: 1504587
Project Name: Roggen to Lochbuie Hydro-Test
Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analyses:

GC/MS Volatiles

Ignitability

Inorganics

Total Extractable Petroleum Hydrocarbons (Diesel)

Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Amy R. Wolf
Project Manager



ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1504587

GC/MS Volatiles:

The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

GRO:

The sample was analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10.

All acceptance criteria were met.

DRO:

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

Ignitability:

The sample was prepared and analyzed based on SW-846, 3rd Edition procedures; SW-1010; and the current revision of SOP 629.

All acceptance criteria were met.

Inorganics:

The sample was analyzed following Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
pH	SM4500-H ⁺ B	1126
TDS	SM2540C	1101
TSS	SM2540D	1100

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1504587

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #1	1504587-1		LIQUID	30-Apr-15	10:20



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER

1504587

PROJECT NAME		SAMPLER		DATE		PAGE		of	
PROJECT No.		SITE ID		TURNAROUND		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		BILL TO COMPANY		PH. TDS, TSS					
SEND REPORT TO		INVOICE ATTN TO		Ignitability					
ADDRESS		ADDRESS							
CITY / STATE / ZIP		CITY / STATE / ZIP							
PHONE		PHONE							
FAX		FAX							
E-MAIL		E-MAIL							
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC		
①	North Tank #1	W	4-30-15	10:20am	3	1000		✓	
		W	4-30-15	10:20am	3			✓	
		W	4-30-15		3			✓	
		W	4-30-15		1			✓	
		W	4-30-15		1			✓	

*Time Zone (Circle): EST CST MST PST Matrix: O=oil S=soil NS=non-soil solid W=water L=liquid E=extract F=filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)
	13.20
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035	

SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Brandon S Hayes	4-30-15	11am
RECEIVED BY	Erin Peterson	4/30/15	1340
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: DCP Midstream Workorder No: 1504587

Project Manager: ARN

Initials: ECP

Date: 4/30/15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<u>NO</u>
2. Are custody seals on shipping containers intact?	NONE	<u>YES</u>	NO
3. Are Custody seals on sample containers intact?	<u>NONE</u>	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
* 5. Are the COC and bottle labels complete and legible?		YES	<u>NO</u>
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	<u>DROP OFF</u>	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<u>N/A</u>	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<u>YES</u>	NO
10. Is there sufficient sample for the requested analyses?		<u>YES</u>	NO
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<u>YES</u>	NO
* 14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>X</u> < green pea ___ > green pea	N/A	YES	<u>NO</u>
* 15. Do any water samples contain sediment? Amount of sediment: <u>X</u> dusting ___ moderate ___ heavy	N/A	<u>YES</u>	NO
16. Were the samples shipped on ice?		<u>YES</u>	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <u>#2</u> #4	RAD ONLY	YES	<u>NO</u>
Cooler #: <u>1</u>			
Temperature (°C): <u>13.20</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>NA</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <u>NA</u> (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

5) Bottle label information has gotten wet/been rubbed off and much of it is not legible

14) 1-6, 1-7, 1-8, 1-9

15) 1-1, 1-2

→ All sample bottles with smeared labels were in one cooler with one COC associated with all bottles. All other samples/bottles received

If applicable, was the client contacted? YES / NO / NA Contact: Branden Hayes

Date/Time: 4/30/15

Project Manager Signature / Date: C. Way 4/30/15

email

*IR Gun #2: Oakton, SN 29922500201-0066

*IR Gun #4: Oakton, SN 2372220101-0002

on the same day were legible and accounted for on their associated COC. on 4/30/15

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: DCP Midstream, LP
Project: Roggen to Lochbuie Hydro-Test
Sample ID: North Tank #1
Legal Location:
Collection Date: 4/30/2015 10:20

Date: 01-May-15
Work Order: 1504587
Lab ID: 1504587-1
Matrix: LIQUID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 5/1/2015	PrepBy: JFN
Diesel Range Organics	ND		0.75	MG/L	1	5/1/2015 12:50
Surr: O-TERPHENYL	92		54-123	%REC	1	5/1/2015 12:50
Gasoline Range Organics			SW8015		Prep Date: 4/30/2015	PrepBy: JFN
GASOLINE RANGE ORGANICS	0.18	GZ	0.1	MG/L	1	4/30/2015 17:13
Surr: 2,3,4-TRIFLUOROTOLUENE	87		74-129	%REC	1	4/30/2015 17:13
GC/MS Volatiles			SW8260_25		Prep Date: 4/30/2015	PrepBy: SDW
BENZENE	15		1	UG/L	1	4/30/2015 19:49
TOLUENE	39		1	UG/L	1	4/30/2015 19:49
ETHYLBENZENE	2.4		1	UG/L	1	4/30/2015 19:49
M+P-XYLENE	8.9		1	UG/L	1	4/30/2015 19:49
O-XYLENE	3.4		1	UG/L	1	4/30/2015 19:49
TOTAL XYLENES	12		1	UG/L	1	4/30/2015 19:49
Surr: 4-BROMOFLUOROBENZENE	102		85-115	%REC	1	4/30/2015 19:49
Surr: DIBROMOFLUOROMETHANE	95		84-118	%REC	1	4/30/2015 19:49
Surr: TOLUENE-D8	95		85-115	%REC	1	4/30/2015 19:49
Ignitability			SW1010		Prep Date: 5/1/2015	PrepBy: BCH
IGNITABILITY	ND		96	deg C	1	5/1/2015
pH			SM4500-H		Prep Date: 5/1/2015	PrepBy: JAC
PH	7.9		0.1	pH	1	5/1/2015
Total Dissolved Solids			SM2540C		Prep Date: 4/30/2015	PrepBy: AJD
TOTAL DISSOLVED SOLIDS	1100		40	MG/L	1	5/1/2015
Total Suspended Solids			SM2540D		Prep Date: 4/30/2015	PrepBy: AJD
TOTAL SUSPENDED SOLIDS	120		20	MG/L	1	5/1/2015

Client: DCP Midstream, LP
Project: Roggen to Lochbuie Hydro-Test
Sample ID: North Tank #1
Legal Location:
Collection Date: 4/30/2015 10:20

Date: 01-May-15
Work Order: 1504587
Lab ID: 1504587-1
Matrix: LIQUID

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
----------	--------	------	--------------	-------	-----------------	---------------

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 W - DER is greater than Warning Limit of 1.42
 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
 # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
 G - Sample density differs by more than 15% of LCS density.
 D - DER is greater than Control Limit
 M - Requested MDC not met.
 LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U or ND - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.
 S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 + - The relative percent difference (RPD) equals or exceeds the control criteria.
 G - A pattern resembling gasoline was detected in this sample.
 D - A pattern resembling diesel was detected in this sample.
 M - A pattern resembling motor oil was detected in this sample.
 C - A pattern resembling crude oil was detected in this sample.
 4 - A pattern resembling JP-4 was detected in this sample.
 5 - A pattern resembling JP-5 was detected in this sample.
 H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
 L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
 Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C

ALS Environmental -- FC

Date: 5/1/2015 4:58:5

Client: DCP Midstream, LP

QC BATCH REPORT

Work Order: 1504587

Project: Roggen to Lochbuie Hydro-Test

Batch ID: HC150430-62-1 Instrument ID: FUELS-1 Method: SW8015

LCS Sample ID: HC150430-62 Units: MG/L Analysis Date: 4/30/2015 18:37

Client ID: Run ID: HC150430-6A Prep Date: 4/30/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	0.453	0.1	0.5		91	79-118				20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.094		0.1		94	74-129					

MB Sample ID: HC150430-62 Units: MG/L Analysis Date: 4/30/2015 16:07

Client ID: Run ID: HC150430-6A Prep Date: 4/30/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	ND	0.1									
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0848		0.1		85	74-129					

The following samples were analyzed in this batch:

1504587-1

Client: DCP Midstream, LP
 Work Order: 1504587
 Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **HC150501-100-1** Instrument ID: **FUELS-1** Method: **SW8015M**

LCS	Sample ID: HC150501-100			Units: MG/L		Analysis Date: 5/1/2015 10:29					
Client ID:	Run ID: HC150501-8A			Prep Date: 5/1/2015			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	9.4	0.728	10.1		93	36-150				20	
Surr: O-TERPHENYL	1		1.01		99	54-123					

LCSD	Sample ID: HC150501-100				Units: MG/L		Analysis Date: 5/1/2015 11:04				
Client ID:	Run ID: HC150501-8A				Prep Date: 5/1/2015			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	9.3	0.738	10.2		91	36-150		9.4	1	20	
Surr: O-TERPHENYL	0.973		1.02		95	54-123			3		

MB	Sample ID: HC150501-100				Units: MG/L	Analysis Date: 5/1/2015 09:53					
Client ID:	Run ID: HC150501-8A				Prep Date: 5/1/2015			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	ND	0.75									
Surr: O-TERPHENYL	0.973		1.04		94	54-123					

The following samples were analyzed in this batch:

1504587-1

Client: DCP Midstream, LP
 Work Order: 1504587
 Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: VL150430-3-1 Instrument ID: HPV1 Method: SW8260_25

LCS Sample ID: VL150430-3 Units: %REC Analysis Date: 4/30/2015 09:53
 Client ID: Run ID: VL150430-3A Prep Date: 4/30/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.2		25		101	85-115					
Surr: DIBROMOFLUOROMETHANE	23.8		25		95	84-118					
Surr: TOLUENE-D8	24		25		96	85-115					
BENZENE	9.82	1	10		98	83-117				20	
TOLUENE	9.77	1	10		98	82-113				20	
ETHYLBENZENE	9.96	1	10		100	81-113				20	
M+P-XYLENE	19.6	1	20		98	82-115				20	
O-XYLENE	9.8	1	10		98	81-115				20	

LCSD Sample ID: VL150430-3 Units: %REC Analysis Date: 4/30/2015 10:14
 Client ID: Run ID: VL150430-3A Prep Date: 4/30/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.6		25		98	85-115			2		
Surr: DIBROMOFLUOROMETHANE	23.9		25		96	84-118			0		
Surr: TOLUENE-D8	23.8		25		95	85-115			1		
BENZENE	9.8	1	10		98	83-117		9.82	0	20	
TOLUENE	9.66	1	10		97	82-113		9.77	1	20	
ETHYLBENZENE	9.89	1	10		99	81-113		9.96	1	20	
M+P-XYLENE	19.5	1	20		98	82-115		19.6	0	20	
O-XYLENE	9.8	1	10		98	81-115		9.8	0	20	

MB Sample ID: VL150430-3 Units: %REC Analysis Date: 4/30/2015 11:00
 Client ID: Run ID: VL150430-3A Prep Date: 4/30/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.8		25		103	85-115					
Surr: DIBROMOFLUOROMETHANE	23.8		25		95	84-118					
Surr: TOLUENE-D8	24.1		25		96	85-115					
BENZENE	ND	1									
TOLUENE	ND	1									
ETHYLBENZENE	ND	1									
M+P-XYLENE	ND	1									
O-XYLENE	ND	1									
TOTAL XYLENES	ND	1									

The following samples were analyzed in this batch:

1504587-1

Client: DCP Midstream, LP
Work Order: 1504587
Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **TD150430-1-1** Instrument ID: **Balance** Method: **SM2540C**

LCS Sample ID: **TD150430-1** Units: **MG/L** Analysis Date: **5/1/2015**

Client ID: Run ID: **TD150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	410	20	400		103	85-115				5	

MB Sample ID: **TD150430-1** Units: **MG/L** Analysis Date: **5/1/2015**

Client ID: Run ID: **TD150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch:

1504587-1

Client: DCP Midstream, LP
Work Order: 1504587
Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **TS150430-1-1** Instrument ID: **Balance** Method: **SM2540D**

LCS Sample ID: **TS150430-1** Units: **MG/L** Analysis Date: **5/1/2015**
Client ID: Run ID: **TS150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS	462	20	500		92	85-115				5	

MB Sample ID: **TS150430-1** Units: **MG/L** Analysis Date: **5/1/2015**
Client ID: Run ID: **TS150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS	ND	20									

The following samples were analyzed in this batch:

1504587-1



Ft. Collins, Colorado

LIMS Version: 6.761

Page 1 of 1

Thursday, May 07, 2015

Branden Hayes
DCP Midstream, LP
3026 4th Avenue
Greeley, CO 80631

Re: ALS Workorder: 1505086
Project Name: Roggen to Lochbuie Hydro-Test
Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analysis:

Inorganics

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

A handwritten signature in black ink, appearing to read "Amy R. Wolf".

ALS Environmental
Amy R. Wolf
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1505086

Inorganics:

The sample was analyzed following Standard Method procedures for the current revision of the following SOP and method:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Specific conductance	SM2510B	1128

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1505086

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #1	1505086-1		LIQUID	30-Apr-15	10:20



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER

PAGE

DISPOSAL

By Lab or Return to Client

PROJECT NAME	Roggen to Lechville	SAMPLER	Brandon Hayes	DATE		WORKORDER	1505086
PROJECT No.		SITE ID	Roggen to Lechville hydro	TURNAROUND	Rush	PAGE	1504587
COMPANY NAME	D.P. Midstream	EDD FORMAT				DISPOSAL	AW 5/7/15
SEND REPORT TO		PURCHASE ORDER					
ADDRESS		BILL TO COMPANY					
CITY / STATE / ZIP		INVOICE ATTN TO					
PHONE		ADDRESS					
FAX		CITY / STATE / ZIP					
E-MAIL		PHONE					
		FAX					
		E-MAIL					
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
①	North Fork #1	W	4-30-15	10:20am	3	NO	✓
		W	4-30-15	10:20am	3		✓
		W	4-30-15		3		✓
		W	4-30-15		1		✓
		W	4-30-15		1		✓

*Time Zone (Circle): EST CST MST PST Matrix O=oil S=soil NS=non-soil solid W=water L=liquid E=extract F=filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)
	13.20
Preservative Key:	1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY: <i>Brandon Hayes</i>	Brandon S Hayes	4-30-15	11am
RECEIVED BY: <i>Erin Peterson</i>	Erin Peterson	4/30/15	1340
RELINQUISHED BY:			
RECEIVED BY:			
RELINQUISHED BY:			
RECEIVED BY:			



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

1505086

Client: DCP Midstream

Workorder No: 1504587 *aw 5/7/15*

Project Manager: ARW

Initials: ECP Date: 4/30/15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<u>NO</u>
2. Are custody seals on shipping containers intact?	NONE	<u>YES</u>	NO
3. Are Custody seals on sample containers intact?	<u>NONE</u>	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
5. Are the COC and bottle labels complete and legible?		YES	<u>NO</u>
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	<u>DROP OFF</u>	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<u>N/A</u>	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<u>YES</u>	NO
10. Is there sufficient sample for the requested analyses?		<u>YES</u>	NO
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<u>YES</u>	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>X</u> < green pea ___ > green pea	N/A	YES	<u>NO</u>
15. Do any water samples contain sediment? Amount of sediment: <u>X</u> dusting ___ moderate ___ heavy	N/A	<u>YES</u>	NO
16. Were the samples shipped on ice?		<u>YES</u>	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <u>#2</u> #4	RAD ONLY	YES	<u>NO</u>
Cooler #: <u>1</u>			
Temperature (°C): <u>13.20</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>NA</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <u>NA</u> (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

5) Bottle label information has gotten wet / been rubbed off and much of it is not legible

14) 1-6, 1-7, 1-8, 1-9

15) 1-1, 1-2

► All sample bottles with smeared labels were in one cooler with one COC associated with all bottles. All other samples/bottles received

If applicable, was the client contacted? YES / NO / NA Contact: Branden Hayes

Date/Time: 4/30/15
email

Project Manager Signature / Date: [Signature] 4/30/15

Relogged for addition of specific conductivity. *aw 5/7/15*

on the same day were legible and accounted for on their associated COC. *aw 4/30/15*

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: DCP Midstream, LP
 Project: Roggen to Lochbuie Hydro-Test
 Sample ID: North Tank #1
 Legal Location:
 Collection Date: 4/30/2015 10:20

Date: 07-May-15

Work Order: 1505086

Lab ID: 1505086-1

Matrix: LIQUID

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Specific Conductance in Water SPECIFIC CONDUCTIVITY	1659		SM2510B	1 umhos/cm	1	Prep Date: 5/7/2015 PrepBy: JAC 5/7/2015

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 W - DER is greater than Warning Limit of 1.42
 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
 # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
 G - Sample density differs by more than 15% of LCS density.
 D - DER is greater than Control Limit
 M - Requested MDC not met.
 LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U or ND - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.
 S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 + - The relative percent difference (RPD) equals or exceeds the control criteria.
 G - A pattern resembling gasoline was detected in this sample.
 D - A pattern resembling diesel was detected in this sample.
 M - A pattern resembling motor oil was detected in this sample.
 C - A pattern resembling crude oil was detected in this sample.
 4 - A pattern resembling JP-4 was detected in this sample.
 5 - A pattern resembling JP-5 was detected in this sample.
 H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
 L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
 Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C



Ft. Collins, Colorado

LIMS Version: 6.760

Page 1 of 1

Friday, May 01, 2015

Branden Hayes
DCP Midstream, LP
3026 4th Avenue
Greeley, CO 80631

Re: ALS Workorder: 1504586
Project Name: Roggen to Lochbuie Hydro-Test
Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analyses:

GC/MS Volatiles

Ignitability

Inorganics

Total Extractable Petroleum Hydrocarbons (Diesel)

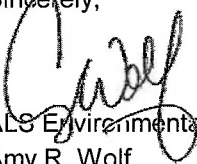
Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,


ALS Environmental
Amy R. Wolf
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1504586

GC/MS Volatiles:

The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

GRO:

The sample was analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10.

All acceptance criteria were met.

DRO:

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

Ignitability:

The sample was prepared and analyzed based on SW-846, 3rd Edition procedures; SW-1010; and the current revision of SOP 629.

All acceptance criteria were met.

Inorganics:

The sample was analyzed following Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
pH	SM4500-H ⁺ B	1126
TDS	SM2540C	1101
TSS	SM2540D	1100

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1504586

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #4	1504586-1		LIQUID	30-Apr-15	11:45



1504586

Form 20218

Comments: <div style="text-align: right;">16.16°</div>	QC PACKAGE (check below)								
		LEVEL II (Standard QC)							
		LEVEL III (Std QC + forms)							
		LEVEL IV (Std QC + forms + raw data)							
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035									

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Brandon S Hay	4-30	11:50
RECEIVED BY		Erin Peterson	4/30	1340
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: DCP Midstream Workorder No: 1504586
Project Manager: ARW Initials: ECP Date: 4/30/15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<u>NO</u>
2. Are custody seals on shipping containers intact?	NONE	<u>YES</u>	NO
3. Are Custody seals on sample containers intact?	<u>NONE</u>	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
5. Are the COC and bottle labels complete and legible?		<u>YES</u>	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	<u>DROP OFF</u>	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<u>N/A</u>	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<u>YES</u>	NO
10. Is there sufficient sample for the requested analyses?		<u>YES</u>	NO
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<u>YES</u>	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>X</u> < green pea _____ > green pea	N/A	YES	<u>NO</u>
15. Do any water samples contain sediment? Amount of sediment: _____ dusting _____ moderate _____ heavy	N/A	YES	<u>NO</u>
16. Were the samples shipped on ice?		<u>YES</u>	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <u>#2</u> #4		YES	<u>NO</u>
Cooler #: <u>1</u>			
Temperature (°C): <u>16.6</u> <u>⊗</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>NA</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <u>NA</u> (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

14) 1-6

⊗ Delivered same day as collected

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 4/30/15

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: DCP Midstream, LP
 Project: Roggen to Lochbuie Hydro-Test
 Sample ID: North Tank #4
 Legal Location:
 Collection Date: 4/30/2015 11:45

Date: 01-May-15

Work Order: 1504586

Lab ID: 1504586-1

Matrix: LIQUID

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 5/1/2015	PrepBy: JFN
Diesel Range Organics	ND		0.73	MG/L	1	5/1/2015 12:15
Surr: O-TERPHENYL	90		54-123	%REC	1	5/1/2015 12:15
Gasoline Range Organics			SW8015		Prep Date: 4/30/2015	PrepBy: JFN
GASOLINE RANGE ORGANICS	0.016	J	0.1	MG/L	1	4/30/2015 16:53
Surr: 2,3,4-TRIFLUOROTOLUENE	86		74-129	%REC	1	4/30/2015 16:53
GC/MS Volatiles			SW8260_25		Prep Date: 4/30/2015	PrepBy: SDW
BENZENE	ND		1	UG/L	1	4/30/2015 19:28
TOLUENE	ND		1	UG/L	1	4/30/2015 19:28
ETHYLBENZENE	ND		1	UG/L	1	4/30/2015 19:28
M+P-XYLENE	ND		1	UG/L	1	4/30/2015 19:28
O-XYLENE	ND		1	UG/L	1	4/30/2015 19:28
TOTAL XYLENES	ND		1	UG/L	1	4/30/2015 19:28
Surr: 4-BROMOFLUOROBENZENE	103		85-115	%REC	1	4/30/2015 19:28
Surr: DIBROMOFLUOROMETHANE	94		84-118	%REC	1	4/30/2015 19:28
Surr: TOLUENE-D8	96		85-115	%REC	1	4/30/2015 19:28
Ignitability			SW1010		Prep Date: 5/1/2015	PrepBy: BCH
IGNITABILITY	ND		96	deg C	1	5/1/2015
pH			SM4500-H		Prep Date: 5/1/2015	PrepBy: JAC
PH	7.71		0.1	pH	1	5/1/2015
Total Dissolved Solids			SM2540C		Prep Date: 4/30/2015	PrepBy: AJD
TOTAL DISSOLVED SOLIDS	1200		40	MG/L	1	5/1/2015
Total Suspended Solids			SM2540D		Prep Date: 4/30/2015	PrepBy: AJD
TOTAL SUSPENDED SOLIDS	ND		20	MG/L	1	5/1/2015

Client: DCP Midstream, LP
Project: Roggen to Lochbuie Hydro-Test
Sample ID: North Tank #4
Legal Location:
Collection Date: 4/30/2015 11:45

Date: 01-May-15
Work Order: 1504586
Lab ID: 1504586-1
Matrix: LIQUID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
----------	--------	------	--------------	-------	-----------------	---------------

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 W - DER is greater than Warning Limit of 1.42
 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
 # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
 G - Sample density differs by more than 15% of LCS density.
 D - DER is greater than Control Limit
 M - Requested MDC not met.
 LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U or ND - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.
 S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 + - The relative percent difference (RPD) equals or exceeds the control criteria.
 G - A pattern resembling gasoline was detected in this sample.
 D - A pattern resembling diesel was detected in this sample.
 M - A pattern resembling motor oil was detected in this sample.
 C - A pattern resembling crude oil was detected in this sample.
 4 - A pattern resembling JP-4 was detected in this sample.
 5 - A pattern resembling JP-5 was detected in this sample.
 H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
 L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
 Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:

- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

ALS Environmental -- FC

Client: DCP Midstream, LP
Work Order: 1504586
Project: Roggen to Lochbuie Hydro-Test

Date: 5/1/2015 4:52:5

QC BATCH REPORT

Batch ID: **HC150430-62-1** Instrument ID: **FUELS-1** Method: **SW8015**

LCS	Sample ID: HC150430-62			Units: MG/L			Analysis Date: 4/30/2015 18:37				
Client ID:	Run ID: HC150430-6A			Prep Date: 4/30/2015			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	0.453	0.1	0.5		91	79-118				20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.094		0.1		94	74-129					

MB	Sample ID: HC150430-62			Units: MG/L		Analysis Date: 4/30/2015 16:07					
Client ID:	Run ID: HC150430-6A			Prep Date: 4/30/2015			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS		ND	0.1								
Surr: 2,3,4-TRIFLUOROTOLUENE		0.0848	0.1	85	74-129						

The following samples were analyzed in this batch:

1504586-1

Client: DCP Midstream, LP
Work Order: 1504586
Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **HC150501-100-1** Instrument ID: **FUELS-1** Method: **SW8015M**

LCS Sample ID: **HC150501-100** Units: **MG/L** Analysis Date: **5/1/2015 10:29**

Client ID: Run ID: **HC150501-8A** Prep Date: **5/1/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	9.4	0.728	10.1		93	36-150				20	
Surr: O-TERPHENYL	1		1.01		99	54-123					

LCSD Sample ID: **HC150501-100** Units: **MG/L** Analysis Date: **5/1/2015 11:04**

Client ID: Run ID: **HC150501-8A** Prep Date: **5/1/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	9.3	0.738	10.2		91	36-150		9.4	1	20	
Surr: O-TERPHENYL	0.973		1.02		95	54-123			3		

MB Sample ID: **HC150501-100** Units: **MG/L** Analysis Date: **5/1/2015 09:53**

Client ID: Run ID: **HC150501-8A** Prep Date: **5/1/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	ND	0.75									
Surr: O-TERPHENYL	0.973		1.04		94	54-123					

The following samples were analyzed in this batch:

1504586-1

Client: DCP Midstream, LP
 Work Order: 1504586
 Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: VL150430-3-1 Instrument ID: HPV1 Method: SW8260_25

LCS Sample ID: VL150430-3 Units: %REC Analysis Date: 4/30/2015 09:53
 Client ID: Run ID: VL150430-3A Prep Date: 4/30/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.2		25		101	85-115					
Surr: DIBROMOFLUOROMETHANE	23.8		25		95	84-118					
Surr: TOLUENE-D8	24		25		96	85-115					
BENZENE	9.82	1	10		98	83-117				20	
TOLUENE	9.77	1	10		98	82-113				20	
ETHYLBENZENE	9.96	1	10		100	81-113				20	
M+P-XYLENE	19.6	1	20		98	82-115				20	
O-XYLENE	9.8	1	10		98	81-115				20	

LCSD Sample ID: VL150430-3 Units: %REC Analysis Date: 4/30/2015 10:14
 Client ID: Run ID: VL150430-3A Prep Date: 4/30/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.6		25		98	85-115			2		
Surr: DIBROMOFLUOROMETHANE	23.9		25		96	84-118			0		
Surr: TOLUENE-D8	23.8		25		95	85-115			1		
BENZENE	9.8	1	10		98	83-117		9.82	0	20	
TOLUENE	9.66	1	10		97	82-113		9.77	1	20	
ETHYLBENZENE	9.89	1	10		99	81-113		9.96	1	20	
M+P-XYLENE	19.5	1	20		98	82-115		19.6	0	20	
O-XYLENE	9.8	1	10		98	81-115		9.8	0	20	

MB Sample ID: VL150430-3 Units: %REC Analysis Date: 4/30/2015 11:00
 Client ID: Run ID: VL150430-3A Prep Date: 4/30/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.8		25		103	85-115					
Surr: DIBROMOFLUOROMETHANE	23.8		25		95	84-118					
Surr: TOLUENE-D8	24.1		25		96	85-115					
BENZENE	ND	1									
TOLUENE	ND	1									
ETHYLBENZENE	ND	1									
M+P-XYLENE	ND	1									
O-XYLENE	ND	1									
TOTAL XYLENES	ND	1									

The following samples were analyzed in this batch:

1504586-1

Client: DCP Midstream, LP
Work Order: 1504586
Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **TD150430-1-1** Instrument ID: **Balance** Method: **SM2540C**

LCS Sample ID: **TD150430-1** Units: **MG/L** Analysis Date: **5/1/2015**
Client ID: Run ID: **TD150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	410	20	400		103	85-115				5	

MB Sample ID: **TD150430-1** Units: **MG/L** Analysis Date: **5/1/2015**
Client ID: Run ID: **TD150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch:

1504586-1

Client: DCP Midstream, LP
Work Order: 1504586
Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **TS150430-1-1** Instrument ID: **Balance** Method: **SM2540D**

LCS Sample ID: **TS150430-1** Units: **MG/L** Analysis Date: **5/1/2015**

Client ID: Run ID: **TS150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS	462	20	500		92	85-115				5	

MB Sample ID: **TS150430-1** Units: **MG/L** Analysis Date: **5/1/2015**

Client ID: Run ID: **TS150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS	ND	20									

The following samples were analyzed in this batch:

1504586-1



Ft. Collins, Colorado

LIMS Version: 6.761

Page 1 of 1

Thursday, May 07, 2015

Branden Hayes
DCP Midstream, LP
3026 4th Avenue
Greeley, CO 80631

Re: ALS Workorder: 1505085
Project Name: Roggen to Lochbuie Hydro-Test
Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analysis:

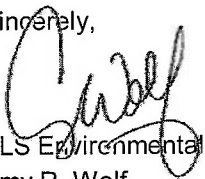
Inorganics

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,


ALS Environmental
Amy R. Wolf
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1505085

Inorganics:

The sample was analyzed following Standard Method procedures for the current revision of the following SOP and method:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Specific conductance	SM2510B	1128

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1505085

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #4	1505085-1		LIQUID	30-Apr-15	11:45

WORKORDER

1501504

of

of



By Lab or Return to Client

(ALS)		SAMPLER		DATE		PAGE		of	
PROJECT NAME	PROJECT No.	SITE ID	EDD FORMAT	TURNAROUND		DISPOSAL		By Lab or Return to Client	
Roggen to Lohbause		Borden Hager Roggen		BTEX GRO DBP PH, TSS, TDS ignitability					
COMPANY NAME: DCP Midstream		PURCHASE ORDER							
SEND REPORT TO		BILL TO COMPANY							
ADDRESS		INVOICE ATTN TO							
CITY / STATE / ZIP		ADDRESS							
PHONE		CITY / STATE / ZIP							
FAX		PHONE							
E-MAIL		FAX							
E-MAIL		E-MAIL							
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC		
① ↓	North Tank #4	W	4-30	11:45	3	One			
					3				
					3				
					1				
					1				

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	<input type="checkbox"/> LEVEL II (Standard QC)
	<input type="checkbox"/> LEVEL III (Std QC + forms)
	<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)
	<input type="checkbox"/>
	<input type="checkbox"/>
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-NaHSO ₄ 7-Other 8-4 degrees C 9-5035	

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Branch S Hays	4-30	11:50
RECEIVED BY		Erin Peterson	4/30	1340
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

1505085

Client:

DCP Midstream

Workorder No:

1504586

Ans 5/7/15

Project Manager:

APW

Initials:

ECP

Date:

4/30/15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	<input checked="" type="radio"/> DROP OFF	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<input checked="" type="radio"/> N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <input checked="" type="checkbox"/> < green pea <input type="checkbox"/> > green pea	N/A	YES	<input checked="" type="radio"/> NO
15. Do any water samples contain sediment? Amount of sediment: <input type="checkbox"/> dusting <input type="checkbox"/> moderate <input type="checkbox"/> heavy	N/A	YES	<input checked="" type="radio"/> NO
16. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <input checked="" type="radio"/> #2 <input type="radio"/> #4		RAD ONLY	<input checked="" type="radio"/> YES <input checked="" type="radio"/> NO
Cooler #: 1			
Temperature (°C): 11.6 <input checked="" type="radio"/>			
No. of custody seals on cooler: 2			
External µR/hr reading: NA			
Background µR/hr reading: 12			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

14) 1-6

☒ Delivered same day as collected

Relogged for addition of specific conductivity.

Ans 5/7/15

If applicable, was the client contacted? YES / NO / ☒ NA Contact:

Date/Time:

Project Manager Signature / Date:

[Signature] 4/30/15

Client: DCP Midstream, LP
Project: Roggen to Lochbuie Hydro-Test
Sample ID: North Tank #4
Legal Location:
Collection Date: 4/30/2015 11:45

Date: 07-May-15
Work Order: 1505085
Lab ID: 1505085-1
Matrix: LIQUID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Specific Conductance in Water SPECIFIC CONDUCTIVITY	1871		SM2510B	1 umhos/cm	1	Prep Date: 5/7/2015 PrepBy: JAC 5/7/2015

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 W - DER is greater than Warning Limit of 1.42
 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
 # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
 G - Sample density differs by more than 15% of LCS density.
 D - DER is greater than Control Limit
 M - Requested MDC not met.
 LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U or ND - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.
 S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 + - The relative percent difference (RPD) equals or exceeds the control criteria.
 G - A pattern resembling gasoline was detected in this sample.
 D - A pattern resembling diesel was detected in this sample.
 M - A pattern resembling motor oil was detected in this sample.
 C - A pattern resembling crude oil was detected in this sample.
 4 - A pattern resembling JP-4 was detected in this sample.
 5 - A pattern resembling JP-5 was detected in this sample.
 H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
 L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
 Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C



Ft. Collins, Colorado

LIMS Version: 6.760

Page 1 of 1

Friday, May 01, 2015

Branden Hayes
DCP Midstream, LP
3026 4th Avenue
Greeley, CO 80631

Re: ALS Workorder: 1504585
Project Name: Roggen to Lochbuie Hydro-Test
Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analyses:

GC/MS Volatiles

Ignitability

Inorganics

Total Extractable Petroleum Hydrocarbons (Diesel)

Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Amy R. Wolf
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1504585

GC/MS Volatiles:

The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

GRO:

The sample was analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10.

All matrix spike and matrix spike duplicate recoveries and RPDs were within the acceptance criteria with the following exception:

Spiked Compound	QC Sample	Direction
Gasoline range organics	MS	Low

The recovery for gasoline range organics in the laboratory control sample was within control limits, which suggest the outlier in the matrix spike may have been due to matrix effects. No further action was taken. Laboratory control sample results have been included.

All remaining acceptance criteria were met.

DRO:

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

Ignitability:

The sample was prepared and analyzed based on SW-846, 3rd Edition procedures; SW-1010; and the current revision of SOP 629.

All acceptance criteria were met.

**Inorganics:**

The sample was analyzed following Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
pH	SM4500-H ⁺ B	1126
TDS	SM2540C	1101
TSS	SM2540D	1100

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1504585

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #3	1504585-1		LIQUID	30-Apr-15	11:15



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (888) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202/8

WORKORDER #

1504585

PAGE

of

DISPOSAL

By Lab or Return to Client

PROJECT NAME	Roygen to Lockhouse		SAMPLER	Barnden Hayes		DATE		
PROJECT No.			SITE ID	Roygen		TURNAROUND		
COMPANY NAME	D&P Midstream		EDD FORMAT			BIEX GRO DRO PH, TDS, TSS Legitimability		
SEND REPORT TO			PURCHASE ORDER					
ADDRESS			BILL TO COMPANY					
CITY / STATE / ZIP			INVOICE ATTN TO					
PHONE			ADDRESS					
FAX			CITY / STATE / ZIP					
E-MAIL			PHONE					
			FAX					
			E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
①	North Tank #3	W	4-30-15	11:15am	3	N	
					3		
					3		
					1		
					1		

*Time Zone (Circle): EST CST MST PST Matrix: O=oil S=soil NS=non-soil solid W=water L=liquid E=extract F=filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
16.0	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

SIGNATURE	PRINTED NAME	DATE	TIME
Barnden Hayes	4-30-15	4-30-15	11:30am
Erin Peterson	Erin Peterson	4-30-15	1340



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: DCP Midstream Workorder No: 1504585
Project Manager: ARW Initials: ECP Date: 4/30/15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<u>NO</u>
2. Are custody seals on shipping containers intact?	NONE	<u>YES</u>	NO
3. Are Custody seals on sample containers intact?	<u>NONE</u>	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
5. Are the COC and bottle labels complete and legible?		<u>YES</u>	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	<u>DROP OFF</u>	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<u>N/A</u>	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<u>YES</u>	NO
10. Is there sufficient sample for the requested analyses?		<u>YES</u>	NO
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<u>YES</u>	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	N/A	<u>YES</u>	NO
15. Do any water samples contain sediment? Amount Amount of sediment: <u>X</u> dusting ____ moderate ____ heavy	N/A	<u>YES</u>	NO
16. Were the samples shipped on ice?		<u>YES</u>	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <u>#2</u> #4 RAD ONLY		YES	<u>NO</u>
Cooler #: <u>1</u>			
Temperature (°C): <u>16.0</u> [Ⓡ]			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>NA</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <u>NA</u> (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

15) 1-2

Ⓡ Delivered same day as collected

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: Gandy 4/30/15

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: DCP Midstream, LP
 Project: Roggen to Lochbuie Hydro-Test
 Sample ID: North Tank #3
 Legal Location:
 Collection Date: 4/30/2015 11:15

Date: 01-May-15
 Work Order: 1504585
 Lab ID: 1504585-1
 Matrix: LIQUID
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 5/1/2015	PrepBy: JFN
Diesel Range Organics	ND		0.73	MG/L	1	5/1/2015 11:40
Surr: O-TERPHENYL	91		54-123	%REC	1	5/1/2015 11:40
Gasoline Range Organics			SW8015		Prep Date: 4/30/2015	PrepBy: JFN
GASOLINE RANGE ORGANICS	1	GZ	0.1	MG/L	1	4/30/2015 16:32
Surr: 2,3,4-TRIFLUOROTOLUENE	96		74-129	%REC	1	4/30/2015 16:32
GC/MS Volatiles			SW8260_25		Prep Date: 4/30/2015	PrepBy: SDW
BENZENE	140		10	UG/L	10	4/30/2015 17:35
TOLUENE	280		10	UG/L	10	4/30/2015 17:35
ETHYLBENZENE	7.5		1	UG/L	1	4/30/2015 20:32
M+P-XYLENE	37		1	UG/L	1	4/30/2015 20:32
O-XYLENE	9.2		1	UG/L	1	4/30/2015 20:32
TOTAL XYLENES	46		1	UG/L	1	4/30/2015 20:32
Surr: 4-BROMOFLUOROBENZENE	103		85-115	%REC	1	4/30/2015 20:32
Surr: 4-BROMOFLUOROBENZENE	105		85-115	%REC	10	4/30/2015 17:35
Surr: DIBROMOFLUOROMETHANE	96		84-118	%REC	1	4/30/2015 20:32
Surr: DIBROMOFLUOROMETHANE	94		84-118	%REC	10	4/30/2015 17:35
Surr: TOLUENE-D8	96		85-115	%REC	1	4/30/2015 20:32
Surr: TOLUENE-D8	96		85-115	%REC	10	4/30/2015 17:35
Ignitability			SW1010		Prep Date: 5/1/2015	PrepBy: BCH
IGNITABILITY	ND		96	deg C	1	5/1/2015
pH			SM4500-H		Prep Date: 5/1/2015	PrepBy: JAC
PH	7.56		0.1	pH	1	5/1/2015
Total Dissolved Solids			SM2540C		Prep Date: 4/30/2015	PrepBy: AJD
TOTAL DISSOLVED SOLIDS	1100		40	MG/L	1	5/1/2015
Total Suspended Solids			SM2540D		Prep Date: 4/30/2015	PrepBy: AJD
TOTAL SUSPENDED SOLIDS	ND		20	MG/L	1	5/1/2015

Client: DCP Midstream, LP
Project: Roggen to Lochbuie Hydro-Test
Sample ID: North Tank #3
Legal Location:
Collection Date: 4/30/2015 11:15

Date: 01-May-15
Work Order: 1504585
Lab ID: 1504585-1
Matrix: LIQUID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 W - DER is greater than Warning Limit of 1.42
 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
 # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
 G - Sample density differs by more than 15% of LCS density.
 D - DER is greater than Control Limit
 M - Requested MDC not met.
 LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U or ND - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.
 S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 + - The relative percent difference (RPD) equals or exceeds the control criteria.
 G - A pattern resembling gasoline was detected in this sample.
 D - A pattern resembling diesel was detected in this sample.
 M - A pattern resembling motor oil was detected in this sample.
 C - A pattern resembling crude oil was detected in this sample.
 4 - A pattern resembling JP-4 was detected in this sample.
 5 - A pattern resembling JP-5 was detected in this sample.
 H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
 L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
 Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:

- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

ALS Environmental -- FC

Date: 5/1/2015 4:48:4

Client: DCP Midstream, LP

QC BATCH REPORT

Work Order: 1504585

Project: Roggen to Lochbuie Hydro-Test

Batch ID: HC150430-62-1

Instrument ID: FUELS-1

Method: SW8015

DUP	Sample ID: 1504585-1				Units: MG/L		Analysis Date: 4/30/2015 17:55				
Client ID: North Tank #3		Run ID: HC150430-6A				Prep Date: 4/30/2015			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	0.968	0.1							1	3	GZ
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0944		0.1		94	74-129					

LCS	Sample ID: HC150430-62				Units: MG/L		Analysis Date: 4/30/2015 18:37				
Client ID:	Run ID: HC150430-6A				Prep Date: 4/30/2015			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	0.453	0.1	0.5		91	79-118				20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.094		0.1		94	74-129					

MB	Sample ID: HC150430-62				Units: MG/L	Analysis Date: 4/30/2015 16:07					
Client ID:	Run ID: HC150430-6A				Prep Date: 4/30/2015				DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	ND	0.1									
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0848		0.1		85	74-129					

MS	Sample ID: 1504585-1				Units: MG/L		Analysis Date: 4/30/2015 18:16				
Client ID: North Tank #3		Run ID: HC150430-6A				Prep Date: 4/30/2015			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1.32	0.1	0.5	1	63	79-118				30	*
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0958		0.1		96	74-129					

The following samples were analyzed in this batch:

1504585-1

Client: DCP Midstream, LP
Work Order: 1504585
Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **HC150501-100-1** Instrument ID: **FUELS-1** Method: **SW8015M**

LCS		Sample ID: HC150501-100			Units: MG/L		Analysis Date: 5/1/2015 10:29				
Client ID:		Run ID: HC150501-8A			Prep Date: 5/1/2015		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	9.4	0.728	10.1		93	36-150				20	
Surr: O-TERPHENYL	1		1.01		99	54-123					

LCSD		Sample ID: HC150501-100			Units: MG/L		Analysis Date: 5/1/2015 11:04				
Client ID:		Run ID: HC150501-8A			Prep Date: 5/1/2015		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	9.3	0.738	10.2		91	36-150		9.4	1	20	
Surr: O-TERPHENYL	0.973		1.02		95	54-123			3		

MB		Sample ID: HC150501-100			Units: MG/L		Analysis Date: 5/1/2015 09:53				
Client ID:		Run ID: HC150501-8A			Prep Date: 5/1/2015		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	ND	0.75									
Surr: O-TERPHENYL	0.973		1.04		94	54-123					

The following samples were analyzed in this batch:

1504585-1

Client: DCP Midstream, LP
 Work Order: 1504585
 Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **VL150430-3-1** Instrument ID: **HPV1** Method: **SW8260_25**

LCS Sample ID: **VL150430-3** Units: **%REC** Analysis Date: **4/30/2015 09:53**
 Client ID: Run ID: **VL150430-3A** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.2		25		101	85-115					
Surr: DIBROMOFLUOROMETHANE	23.8		25		95	84-118					
Surr: TOLUENE-D8	24		25		96	85-115					
BENZENE	9.82	1	10		98	83-117				20	
TOLUENE	9.77	1	10		98	82-113				20	
ETHYLBENZENE	9.96	1	10		100	81-113				20	
M+P-XYLENE	19.6	1	20		98	82-115				20	
O-XYLENE	9.8	1	10		98	81-115				20	

LCSD Sample ID: **VL150430-3** Units: **%REC** Analysis Date: **4/30/2015 10:14**
 Client ID: Run ID: **VL150430-3A** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.6		25		98	85-115			2		
Surr: DIBROMOFLUOROMETHANE	23.9		25		96	84-118			0		
Surr: TOLUENE-D8	23.8		25		95	85-115			1		
BENZENE	9.8	1	10		98	83-117		9.82	0	20	
TOLUENE	9.66	1	10		97	82-113		9.77	1	20	
ETHYLBENZENE	9.89	1	10		99	81-113		9.96	1	20	
M+P-XYLENE	19.5	1	20		98	82-115		19.6	0	20	
O-XYLENE	9.8	1	10		98	81-115		9.8	0	20	

MB Sample ID: **VL150430-3** Units: **%REC** Analysis Date: **4/30/2015 11:00**
 Client ID: Run ID: **VL150430-3A** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.8		25		103	85-115					
Surr: DIBROMOFLUOROMETHANE	23.8		25		95	84-118					
Surr: TOLUENE-D8	24.1		25		96	85-115					
BENZENE	ND	1									
TOLUENE	ND	1									
ETHYLBENZENE	ND	1									
M+P-XYLENE	ND	1									
O-XYLENE	ND	1									
TOTAL XYLENES	ND	1									

The following samples were analyzed in this batch:

1504585-1

Client: DCP Midstream, LP
Work Order: 1504585
Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **TD150430-1-1** Instrument ID: **Balance** Method: **SM2540C**

LCS Sample ID: **TD150430-1** Units: **MG/L** Analysis Date: **5/1/2015**

Client ID: Run ID: **TD150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	410	20	400		103	85-115				5	

MB Sample ID: **TD150430-1** Units: **MG/L** Analysis Date: **5/1/2015**

Client ID: Run ID: **TD150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch:

1504585-1

Client: DCP Midstream, LP
Work Order: 1504585
Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **TS150430-1-1** Instrument ID: **Balance** Method: **SM2540D**

LCS Sample ID: **TS150430-1** Units: **MG/L** Analysis Date: **5/1/2015**
Client ID: Run ID: **TS150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS	462	20	500		92	85-115				5	

MB Sample ID: **TS150430-1** Units: **MG/L** Analysis Date: **5/1/2015**
Client ID: Run ID: **TS150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS	ND	20									

The following samples were analyzed in this batch:

1504585-1



Ft. Collins, Colorado

LIMS Version: 6.761

Page 1 of 1

Thursday, May 07, 2015

Branden Hayes
DCP Midstream, LP
3026 4th Avenue
Greeley, CO 80631

Re: ALS Workorder: 1505084
Project Name: Roggen to Lochbuie Hydro-Test
Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analysis:

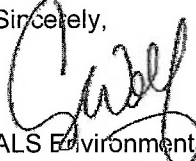
Inorganics

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,



ALS Environmental
Amy R. Wolf
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1505084

Inorganics:

The sample was analyzed following Standard Method procedures for the current revision of the following SOP and method:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Specific conductance	SM2510B	1128

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1505084

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #3	1505084-1		LIQUID	30-Apr-15	11:15



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
 TP: (970) 443-1511 PH: (970) 480-1511 FX: (970) 480-1522

Chain-of-Custody

Form 202/0

WORKORDER	1509084 1504585 QW 5/7/15
PAGE	of
DISPOSAL	By Lab or Return to Client

PROJECT NAME	Progen to Lockhart	SAMPLER	Branden Hayes	DATE	
PROJECT No.		SITE ID	Progen	TURNAROUND	
COMPANY NAME	DGP Midstream	EDD FORMAT			
SEND REPORT TO		PURCHASE ORDER			
ADDRESS		BILL TO COMPANY			
CITY / STATE / ZIP		INVOICE ATTN TO			
PHONE		ADDRESS			
FAX		CITY / STATE / ZIP			
E-MAIL		PHONE			
		FAX			
		E-MAIL			

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
①	North Tank #3	W	4-30-15	11:15am	3	N	
					3		
					3		
					1		
					1		

*Time Zone (Circle): EST CST MST PST Matrix: O=oil S=soil NS=non-soil solid W=water L=liquid E=extract F=filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)
16.0	

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

SIGNATURE	PRINTED NAME	DATE	TIME
Branden Hayes	Erin Peterson	4-30-15	11:30am
RECEIVED BY			
RECEIVED BY			
RECEIVED BY			
RECEIVED BY			



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

1505084

Client: DGP Midstream Workorder No: 1504585 Qw 5/7/15

Project Manager: ARW Initials: ECP Date: 4/30/15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<u>NO</u>
2. Are custody seals on shipping containers intact?	NONE	<u>YES</u>	NO
3. Are Custody seals on sample containers intact?	<u>NONE</u>	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
5. Are the COC and bottle labels complete and legible?		<u>YES</u>	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	<u>DROP OFF</u>	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<u>N/A</u>	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<u>N/A</u>	<u>YES</u>	NO
10. Is there sufficient sample for the requested analyses?		<u>YES</u>	NO
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<u>YES</u>	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: _____ < green pea _____ > green pea	<u>N/A</u>	<u>YES</u>	NO
15. Do any water samples contain sediment? Amount of sediment: <u>X</u> dusting _____ moderate _____ heavy	<u>N/A</u>	<u>YES</u>	NO
16. Were the samples shipped on ice?		<u>YES</u>	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <u>#2</u> #4		<u>YES</u>	<u>NO</u>
Cooler #: <u>1</u>			
Temperature (°C): <u>16.0</u> <u>R</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>NA</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <u>NA</u> (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

15) 1-2

Delivered same day as collected

Relogged for addition of specific conductivity

Qw 5/7/15

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 4/30/15

Client: DCP Midstream, LP
Project: Roggen to Lochbuie Hydro-Test
Sample ID: North Tank #3
Legal Location:
Collection Date: 4/30/2015 11:15

Date: 07-May-15
Work Order: 1505084
Lab ID: 1505084-1
Matrix: LIQUID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Specific Conductance in Water SPECIFIC CONDUCTIVITY	1617		SM2510B	1 umhos/cm	1	Prep Date: 5/7/2015 PrepBy: JAC 5/7/2015

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 W - DER is greater than Warning Limit of 1.42
 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
 # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
 G - Sample density differs by more than 15% of LCS density.
 D - DER is greater than Control Limit
 M - Requested MDC not met.
 LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U or ND - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.
 S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 + - The relative percent difference (RPD) equals or exceeds the control criteria.
 G - A pattern resembling gasoline was detected in this sample.
 D - A pattern resembling diesel was detected in this sample.
 M - A pattern resembling motor oil was detected in this sample.
 C - A pattern resembling crude oil was detected in this sample.
 4 - A pattern resembling JP-4 was detected in this sample.
 5 - A pattern resembling JP-5 was detected in this sample.
 H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
 L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
 Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C



Ft. Collins, Colorado

LIMS Version: 6.760

Page 1 of 1

Friday, May 01, 2015

Branden Hayes
DCP Midstream, LP
3026 4th Avenue
Greeley, CO 80631

Re: ALS Workorder: 1504588
Project Name: Roggen to Lochbuie Hydro-Test
Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analyses:

GC/MS Volatiles

Ignitability

Inorganics

Total Extractable Petroleum Hydrocarbons (Diesel)

Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Amy R. Wolf
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1504588

GC/MS Volatiles:

The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

GRO:

The sample was analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10.

All acceptance criteria were met.

DRO:

The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

Ignitability:

The sample was prepared and analyzed based on SW-846, 3rd Edition procedures; SW-1010; and the current revision of SOP 629.

All acceptance criteria were met.

Inorganics:

The sample was analyzed following Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
pH	SM4500-H ⁺ B	1126
TDS	SM2540C	1101
TSS	SM2540D	1100

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1504588

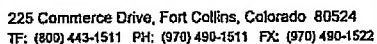
Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #2	1504588-1		LIQUID	30-Apr-15	10:50



Form 202r8

1504588

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filler

For metals or anions, please detail analytes below.

Comments:								
QC PACKAGE (check below) <input type="checkbox"/> LEVEL II (Standard QC) <input type="checkbox"/> LEVEL III (Std QC + forms) <input checked="" type="checkbox"/> LEVEL IV (Std QC + forms + raw data)								
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-NaHSO ₄ 7-Other 8-4 degrees C 9-5035 <div style="text-align: right; font-size: 1.5em;">16.6°</div>								

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Brandon Hayes</i>	Brandon Hayes	4-30-15	11am
RECEIVED BY	<i>Erin Peterson</i>	Erin Peterson	4/30/15	1340
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: DCP Midstream Workorder No: 1504588

Project Manager: ARW

Initials: ECP Date: 4/30/15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<u>NO</u>
2. Are custody seals on shipping containers intact?	NONE	<u>YES</u>	NO
3. Are Custody seals on sample containers intact?	<u>NONE</u>	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
5. Are the COC and bottle labels complete and legible?		<u>YES</u>	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	<u>DROP OFF</u>	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<u>N/A</u>	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<u>YES</u>	NO
10. Is there sufficient sample for the requested analyses?		<u>YES</u>	NO
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<u>YES</u>	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>X</u> < green pea ___ > green pea	N/A	YES	<u>NO</u>
15. Do any water samples contain sediment? Amount Amount of sediment: ___ dusting ___ moderate ___ heavy	N/A	<u>YES</u>	NO
16. Were the samples shipped on ice?		<u>YES</u>	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <u>#2</u> #4	RAD ONLY	YES	<u>NO</u>
Cooler #: <u>1</u>			
Temperature (°C): <u>16.6°</u> <u>(*)</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>NA</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <u>NA</u> (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

14) 1-7, 1-8, 1-6

15) 1-1, 1-2

(*) Delivered same day as collected.

If applicable, was the client contacted? YES / NO NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 4/30/15

Client: DCP Midstream, LP
Project: Roggen to Lochbuie Hydro-Test
Sample ID: North Tank #2
Legal Location:
Collection Date: 4/30/2015 10:50

Date: 01-May-15
Work Order: 1504588
Lab ID: 1504588-1
Matrix: LIQUID

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 5/1/2015	PrepBy: JFN
Diesel Range Organics	ND		0.74	MG/L	1	5/1/2015 13:25
Surr: O-TERPHENYL	90		54-123	%REC	1	5/1/2015 13:25
Gasoline Range Organics			SW8015		Prep Date: 4/30/2015	PrepBy: JFN
GASOLINE RANGE ORGANICS	0.36	GZ	0.1	MG/L	1	4/30/2015 17:34
Surr: 2,3,4-TRIFLUOROTOLUENE	94		74-129	%REC	1	4/30/2015 17:34
GC/MS Volatiles			SW8260_25		Prep Date: 4/30/2015	PrepBy: SDW
BENZENE	44		1	UG/L	1	4/30/2015 20:11
TOLUENE	86		5	UG/L	5	4/30/2015 18:45
ETHYLBENZENE	3.1		1	UG/L	1	4/30/2015 20:11
M+P-XYLENE	14		1	UG/L	1	4/30/2015 20:11
O-XYLENE	4.8		1	UG/L	1	4/30/2015 20:11
TOTAL XYLENES	19		1	UG/L	1	4/30/2015 20:11
Surr: 4-BROMOFLUOROBENZENE	102		85-115	%REC	1	4/30/2015 20:11
Surr: 4-BROMOFLUOROBENZENE	106		85-115	%REC	5	4/30/2015 18:45
Surr: DIBROMOFLUOROMETHANE	94		84-118	%REC	1	4/30/2015 20:11
Surr: DIBROMOFLUOROMETHANE	94		84-118	%REC	5	4/30/2015 18:45
Surr: TOLUENE-D8	96		85-115	%REC	1	4/30/2015 20:11
Surr: TOLUENE-D8	98		85-115	%REC	5	4/30/2015 18:45
Ignitability			SW1010		Prep Date: 5/1/2015	PrepBy: BCH
IGNITABILITY	ND		96	deg C	1	5/1/2015
pH			SM4500-H		Prep Date: 5/1/2015	PrepBy: JAC
PH	7.93		0.1	pH	1	5/1/2015
Total Dissolved Solids			SM2540C		Prep Date: 4/30/2015	PrepBy: AJD
TOTAL DISSOLVED SOLIDS	1100		40	MG/L	1	5/1/2015
Total Suspended Solids			SM2540D		Prep Date: 4/30/2015	PrepBy: AJD
TOTAL SUSPENDED SOLIDS	120		20	MG/L	1	5/1/2015

Client: DCP Midstream, LP
Project: Roggen to Lochbuie Hydro-Test
Sample ID: North Tank #2
Legal Location:
Collection Date: 4/30/2015 10:50

Date: 01-May-15
Work Order: 1504588
Lab ID: 1504588-1
Matrix: LIQUID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 W - DER is greater than Warning Limit of 1.42
 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
 # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
 G - Sample density differs by more than 15% of LCS density.
 D - DER is greater than Control Limit
 M - Requested MDC not met.
 LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U or ND - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.
 S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 + - The relative percent difference (RPD) equals or exceeds the control criteria.
 G - A pattern resembling gasoline was detected in this sample.
 D - A pattern resembling diesel was detected in this sample.
 M - A pattern resembling motor oil was detected in this sample.
 C - A pattern resembling crude oil was detected in this sample.
 4 - A pattern resembling JP-4 was detected in this sample.
 5 - A pattern resembling JP-5 was detected in this sample.
 H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
 L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
 Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:

- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

ALS Environmental -- FC

Date: 5/1/2015 5:03:3

Client: DCP Midstream, LP

QC BATCH REPORT

Work Order: 1504588

Project: Roggen to Lochbuie Hydro-Test

Batch ID: EX150501-2-1 Instrument ID: PM-Flash Method: SW1010

DUP Sample ID: 1504588-1 Units: deg C Analysis Date: 5/1/2015

Client ID: North Tank #2 Run ID: EX150501-2A Prep Date: 5/1/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD Limit	Qual
IGNITABILITY	ND	96.5						96		

The following samples were analyzed in this batch:

1504588-1

Client: DCP Midstream, LP
Work Order: 1504588
Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **HC150430-62-1** Instrument ID: **FUELS-1** Method: **SW8015**

LCS		Sample ID: HC150430-62			Units: MG/L		Analysis Date: 4/30/2015 18:37				
Client ID:		Run ID: HC150430-6A			Prep Date: 4/30/2015		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	0.453	0.1	0.5		91	79-118				20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.094		0.1		94	74-129					

MB		Sample ID: HC150430-62			Units: MG/L		Analysis Date: 4/30/2015 16:07				
Client ID:		Run ID: HC150430-6A			Prep Date: 4/30/2015		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	ND	0.1									
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0848		0.1		85	74-129					

The following samples were analyzed in this batch:

1504588-1

Client: DCP Midstream, LP
 Work Order: 1504588
 Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **HC150501-100-1** Instrument ID: **FUELS-1** Method: **SW8015M**

LCS	Sample ID: HC150501-100			Units: MG/L		Analysis Date: 5/1/2015 10:29					
Client ID:	Run ID: HC150501-8A			Prep Date: 5/1/2015			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	9.4	0.728	10.1		93	36-150				20	
Surr: O-TERPHENYL	1		1.01		99	54-123					

LCSD	Sample ID: HC150501-100			Units: MG/L		Analysis Date: 5/1/2015 11:04					
Client ID:	Run ID: HC150501-8A					Prep Date: 5/1/2015			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	9.3	0.738	10.2		91	36-150		9.4	1	20	
Surr: O-TERPHENYL	0.973		1.02		95	54-123			3		

MB	Sample ID: HC150501-100				Units: MG/L		Analysis Date: 5/1/2015 09:53				
Client ID:	Run ID: HC150501-8A				Prep Date: 5/1/2015			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	ND	0.75									
Surr: O-TERPHENYL	0.973		1.04		94	54-123					

The following samples were analyzed in this batch:

1504588-1

Client: DCP Midstream, LP
 Work Order: 1504588
 Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: VL150430-3-1 Instrument ID: HPV1 Method: SW8260_25

LCS Sample ID: VL150430-3 Units: %REC Analysis Date: 4/30/2015 09:53
 Client ID: Run ID: VL150430-3A Prep Date: 4/30/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.2		25		101	85-115					
Surr: DIBROMOFLUOROMETHANE	23.8		25		95	84-118					
Surr: TOLUENE-D8	24		25		96	85-115					
BENZENE	9.82	1	10		98	83-117				20	
TOLUENE	9.77	1	10		98	82-113				20	
ETHYLBENZENE	9.96	1	10		100	81-113				20	
M+P-XYLENE	19.6	1	20		98	82-115				20	
O-XYLENE	9.8	1	10		98	81-115				20	

LCSD Sample ID: VL150430-3 Units: %REC Analysis Date: 4/30/2015 10:14
 Client ID: Run ID: VL150430-3A Prep Date: 4/30/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.6		25		98	85-115				2	
Surr: DIBROMOFLUOROMETHANE	23.9		25		96	84-118				0	
Surr: TOLUENE-D8	23.8		25		95	85-115				1	
BENZENE	9.8	1	10		98	83-117		9.82	0	20	
TOLUENE	9.66	1	10		97	82-113		9.77	1	20	
ETHYLBENZENE	9.89	1	10		99	81-113		9.96	1	20	
M+P-XYLENE	19.5	1	20		98	82-115		19.6	0	20	
O-XYLENE	9.8	1	10		98	81-115		9.8	0	20	

MB Sample ID: VL150430-3 Units: %REC Analysis Date: 4/30/2015 11:00
 Client ID: Run ID: VL150430-3A Prep Date: 4/30/2015 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.8		25		103	85-115					
Surr: DIBROMOFLUOROMETHANE	23.8		25		95	84-118					
Surr: TOLUENE-D8	24.1		25		96	85-115					
BENZENE	ND	1									
TOLUENE	ND	1									
ETHYLBENZENE	ND	1									
M+P-XYLENE	ND	1									
O-XYLENE	ND	1									
TOTAL XYLENES	ND	1									

The following samples were analyzed in this batch:

1504588-1

Client: DCP Midstream, LP
 Work Order: 1504588
 Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **TD150430-1-1** Instrument ID: **Balance** Method: **SM2540C**

DUP Sample ID: **1504588-1** Units: **MG/L** Analysis Date: **5/1/2015**

Client ID: **North Tank #2** Run ID: **TD150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	1120	40						1100	2	5	

LCS Sample ID: **TD150430-1** Units: **MG/L** Analysis Date: **5/1/2015**

Client ID: Run ID: **TD150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	410	20	400		103	85-115				5	

MB Sample ID: **TD150430-1** Units: **MG/L** Analysis Date: **5/1/2015**

Client ID: Run ID: **TD150501-1A1** Prep Date: **4/30/2015** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch:

1504588-1

Client: DCP Midstream, LP
Work Order: 1504588
Project: Roggen to Lochbuie Hydro-Test

QC BATCH REPORT

Batch ID: **TS150430-1-1** Instrument ID: **Balance** Method: **SM2540D**

DUP	Sample ID: 1504588-1				Units: MG/L		Analysis Date: 5/1/2015				
Client ID: North Tank #2		Run ID: TS150501-1A1				Prep Date: 4/30/2015			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS	128	20						120	2	5	

LCS	Sample ID: TS150430-1			Units: MG/L		Analysis Date: 5/1/2015					
Client ID:	Run ID: TS150501-1A1					Prep Date: 4/30/2015			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS	462	20	500		92	85-115				5	

MB	Sample ID: TS150430-1				Units: MG/L	Analysis Date: 5/1/2015					
Client ID:	Run ID: TS150501-1A1				Prep Date: 4/30/2015				DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS	ND	20									

The following samples were analyzed in this batch:

1504588-1



Ft. Collins, Colorado

LIMS Version: 6.761

Page 1 of 1

Thursday, May 07, 2015

Branden Hayes
DCP Midstream, LP
3026 4th Avenue
Greeley, CO 80631

Re: ALS Workorder: 1505087
Project Name: Roggen to Lochbuie Hydro-Test
Project Number:

Dear Mr. Hayes:

One liquid sample was received from DCP Midstream, LP, on 4/30/2015. The sample was scheduled for the following analysis:

Inorganics

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

A handwritten signature in black ink, appearing to read "Amy R. Wolf".

ALS Environmental
Amy R. Wolf
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1505087

Inorganics:

The sample was analyzed following Standard Method procedures for the current revision of the following SOP and method:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Specific conductance	SM2510B	1128

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1505087

Client Name: DCP Midstream, LP

Client Project Name: Roggen to Lochbuie Hydro-Test

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Tank #2	1505087-1		LIQUID	30-Apr-15	10:50



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202/8

WORKORDER #

1504588
aw 5/7/15

PAGE

of

DISPOSAL

By Lab or Return to Client

PROJECT NAME	Progen to Lochbouse	SAMPLER	Branden Hayes	DATE	
PROJECT No.		SITE ID	Progen hydro	TURNAROUND	
COMPANY NAME	DCP Midstream	EDD FORMAT			
SEND REPORT TO		PURCHASE ORDER			
ADDRESS		BILL TO COMPANY			
CITY / STATE / ZIP		INVOICE ATTN TO			
PHONE		ADDRESS			
FAX		CITY / STATE / ZIP			
E-MAIL		PHONE			
		FAX			
		E-MAIL			

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX	GR0	DR0	pH, TDS, TES	Ignitability
①	North Tank #2	W	4-30-15	10:30am	3	N		X				
					3			X				
					3				X			
					1					X		
					1						X	

*Time Zone (Circle): EST CST MST PST Matrix: O=oil S=soil NS=non-soil solid W=water L=liquid E=extract F=filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)
	16.6°
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035	

SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY: Branden Hayes	Branden Hayes	4-30-15	11am
RECEIVED BY: Erin Peterson	Erin Peterson	4/30/15	1340
RELINQUISHED BY:			
RECEIVED BY:			
RELINQUISHED BY:			
RECEIVED BY:			



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

1505087

Client:

DCP Midstream

Workorder No:

1504588

aw 5/7/15

Project Manager:

ARW

Initials:

ECP

Date:

4/30/15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	NO
2. Are custody seals on shipping containers intact?	NONE	YES	NO
3. Are Custody seals on sample containers intact?	NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		YES	NO
5. Are the COC and bottle labels complete and legible?		YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		YES	NO
12. Are all samples within holding times for the requested analyses?		YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: X < green pea > green pea	N/A	YES	NO
15. Do any water samples contain sediment? Amount: Amount of sediment: dusting moderate heavy	N/A	YES	NO
16. Were the samples shipped on ice?		YES	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4 RAD ONLY		YES	NO
Cooler #: 1			
Temperature (°C): 11.6° (X)			
No. of custody seals on cooler: 2			
External µR/hr reading: NA			
Background µR/hr reading: 12			
DOT Survey Acceptance Information			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

14) 1-7, 1-8, 1-6

15) 1-1, 1-2

Relogged for addition of
specific conductivity
aw 5/7/15

(*) Delivered same day as collected.

If applicable, was the client contacted? YES / NO / NA Contact:

Date/Time:

Project Manager Signature / Date:

ARW 4/30/15

Client: DCP Midstream, LP
Project: Roggen to Lochbuie Hydro-Test
Sample ID: North Tank #2
Legal Location:
Collection Date: 4/30/2015 10:50

Date: 07-May-15
Work Order: 1505087
Lab ID: 1505087-1
Matrix: LIQUID
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Specific Conductance in Water SPECIFIC CONDUCTIVITY	1666		SM2510B	1 umhos/cm	1	Prep Date: 5/7/2015 PrepBy: JAC 5/7/2015

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 W - DER is greater than Warning Limit of 1.42
 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
 # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
 G - Sample density differs by more than 15% of LCS density.
 D - DER is greater than Control Limit
 M - Requested MDC not met.
 LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U or ND - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.
 S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 + - The relative percent difference (RPD) equals or exceeds the control criteria.
 G - A pattern resembling gasoline was detected in this sample.
 D - A pattern resembling diesel was detected in this sample.
 M - A pattern resembling motor oil was detected in this sample.
 C - A pattern resembling crude oil was detected in this sample.
 4 - A pattern resembling JP-4 was detected in this sample.
 5 - A pattern resembling JP-5 was detected in this sample.
 H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
 L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
 Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C

Sampling Info

Company: DCP Midstream
 Address: 3026 4th Avenue
 Greeley, CO 80631
 Phone: 970-539-1908
 Fax:
 e-mail: pdpark@dcpmidstream.com

RC Code: L224
 Bus. Unit: 45082
 Project: Wattenburg Pipeline Hydrotest
 Location: WGR 18 1.5 miles east of Koenersburg

AFE: 311510097
 Sampled by: Paul Park
 Temperature: 64°F

Container #	Sample ID	Date Sampled	Time	Analysis Requested	Comments
Tank 3	mid South	6-4-15	8:50 am	Specific Gravity	
Tank 4	far South	6-4-15	9:00 am	Specific Gravity	

11.5° API
 11.0° API

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by:	Paul Park	DCP Midstream	6-4-15	10:20 am
Received by:	Willie	KPK	6-4-15	10:20 am
Relinquished by:	Willie	KPK	6-4-15	2:40 pm
Received by:	Paul Park	DCP Midstream	6-4-15	14:40
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

©

2

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4

$$SG = \frac{141.5}{131.5 + \text{API GRAVITY}}$$

D

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n

$$\text{TANK \#3} = 0.9895$$

$$\text{TANK \#4} = 0.9929$$

WATTENBERG DISPOSAL, LLC

WORLD TRADE CENTER
1675 BROADWAY, 28TH FLOOR
DENVER, COLORADO 80202-4628
TELEPHONE (303) 825-4822
FACSIMILE (303) 825-4825
WWW.KPK.COM

February 25, 2015

Linda Bowling
Technical Enforcement Program – UIC
U.S. Environmental Protection Agency Region 8
1595 Wynkoop Street, Mail code 8ENF-W
Denver, CO 80202-1129

RE: Wattenberg Disposal, LLC
Class I Non-Hazardous Waste Disposal Well Permit No. CO10938-02115

Dear Ms. Bowling;

Wattenberg Disposal, LLC is submitting water source analyses from facilities with new formation Class II fluids that will be disposed of at the Suckla Farms #1 disposal well. These facilities include:

<u>Facility</u>	<u>Location</u>
1) Noel #3-18	NENW S18 T4N R65W
2) Koester #3-33-3	NENW S33 T4N R67W
3) Pace Connelly #3 & 8	NWSE S27 T2N R68W
4) Briggs #1	NESW S25 T1N R67W
5) Upr 42 Pan Am N #4	SWSW S17 T1N R67W
6) Baurer/Eiberger	NENE S36 T1N R67W

All facilities listed above are exploration and production well site tank batteries owned and operated by K.P. Kauffman Company, Inc. The waste fluid being disposed of is produced water, which has been separated from the comingled liquid stream produced from each facility's associated wellhead(s).

Pursuant to Permit No. CO10938-02115 Section 5.a.(ii), the permittee shall submit a request for disposal of fluids from any new source waters. The request must be accompanied by water analysis consisting of at least total dissolved solids, pH, specific gravity, and specific conductivity.

	GREEN	BLUE	CBI
TAE		2	

A water Analysis is attached for each new produced waste fluid. Wattenberg Disposal, LLC submits these sources for disposal approval.

If you have any questions or comments, please contact me at (303) 825-4822 or at slaramesa@kpk.com.

Sincerely,
Wattenberg Disposal, LLC

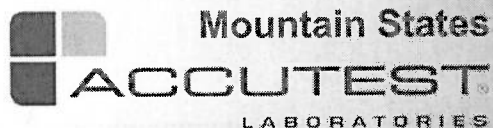


Susana Lara-Mesa
Vice President of Engineering

Enclosures: New Source Waters Analyses

cc: KPK files

GREEN	BLUE	RED



01/27/15

Technical Report for

K.P. Kauffman Company, Inc.

Wattenberg Disposal Source Sampling

Accutest Job Number: D66856

Sampling Date: 01/21/15

Report to:

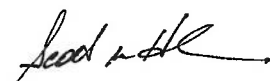
K.P. Kauffman Company, Inc.
1675 Broadway Suite 2800
Denver, CO 80202-4628
mhattel@msn.com; slaramesa@kpk.com

ATTN: Susana Lara-Mesa

Total number of pages in report: 22



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


Scott Heideman
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), TX (T104704511)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

K.P. Kauffman Company, Inc.

Job No: D66856

Wattenberg Disposal Source Sampling

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
D66856-1	01/21/15	09:45 MK	01/21/15	AQ Water	OCOMA
D66856-2	01/21/15	10:20 MK	01/21/15	AQ Water	NOEL #3-18
D66856-3	01/21/15	10:55 MK	01/21/15	AQ Water	JACK C NOEL
D66856-4	01/21/15	11:20 MK	01/21/15	AQ Water	KOESTER #3-33-3
D66856-5	01/21/15	12:45 MK	01/21/15	AQ Water	PACE CONNELLY 3&8
D66856-6	01/21/15	13:50 MK	01/21/15	AQ Water	BRIGGS
D66856-7	01/21/15	13:20 MK	01/21/15	AQ Water	UPRR 42 PAN AM N#4
D66856-8	01/21/15	14:30 MK	01/21/15	AQ Water	BOURER/GIBERGER

CASE NARRATIVE / CONFORMANCE SUMMARY**Client:** K.P. Kauffman Company, Inc.**Job No** D66856**Site:** Wattenberg Disposal Source Sampling**Report Date** 1/27/2015 4:58:35 PM

On 01/21/2015, 8 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 15.3 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D66856 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Wet Chemistry By Method ASTM D287**Matrix:** ALL**Batch ID:** GN28362

- The data for ASTM D287 meets quality control requirements.

Wet Chemistry By Method SM 2510B-2011**Matrix:** AQ**Batch ID:** GP14481

- Sample(s) D66856-2DUP were used as the QC samples for the Specific Conductivity analysis.

Wet Chemistry By Method SM 2540C-2011**Matrix:** AQ**Batch ID:** GN28371

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D66880-1ADUP were used as the QC samples for the Solids, Total Dissolved analysis.

Wet Chemistry By Method SM4500HB+-2011/9040C**Matrix:** AQ**Batch ID:** GN28372

- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8 Analysis performed past the required 15 minutes from collection time/holding time.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Summary of Hits

Page 1 of 2

Job Number: D66856
 Account: K.P. Kauffman Company, Inc.
 Project: Wattenberg Disposal Source Sampling
 Collected: 01/21/15

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D66856-1	OCOMA					
Specific Gravity by Hydrometer		0.70860				ASTM D287
D66856-2	NOEL #3-18					
Solids, Total Dissolved		3580	10		mg/l	SM 2540C-2011
Specific Conductivity		5550	1.0		umhos/cm	SM 2510B-2011
Specific Gravity by Hydrometer		1.0050				ASTM D287
pH ^a		6.34			su	SM4500HB + -2011/9040C
D66856-3	JACK C NOEL					
Specific Gravity by Hydrometer		0.67030				ASTM D287
D66856-4	KOESTER #3-33-3					
Solids, Total Dissolved		25500	10		mg/l	SM 2540C-2011
Specific Conductivity		35000	1.0		umhos/cm	SM 2510B-2011
Specific Gravity by Hydrometer		1.0151				ASTM D287
pH ^a		6.17			su	SM4500HB + -2011/9040C
D66856-5	PACE CONNELLY 3&8					
Solids, Total Dissolved		18800	10		mg/l	SM 2540C-2011
Specific Conductivity		27500	1.0		umhos/cm	SM 2510B-2011
Specific Gravity by Hydrometer		1.0107				ASTM D287
pH ^a		6.75			su	SM4500HB + -2011/9040C
D66856-6	BRIGGS					
Solids, Total Dissolved		24700	10		mg/l	SM 2540C-2011
Specific Conductivity		33700	1.0		umhos/cm	SM 2510B-2011
Specific Gravity by Hydrometer		1.0136				ASTM D287
pH ^a		7.06			su	SM4500HB + -2011/9040C
D66856-7	UPRR 42 PAN AM N#4					
Solids, Total Dissolved		20400	10		mg/l	SM 2540C-2011
Specific Conductivity		28200	1.0		umhos/cm	SM 2510B-2011
Specific Gravity by Hydrometer		1.0122				ASTM D287
pH ^a		7.06			su	SM4500HB + -2011/9040C

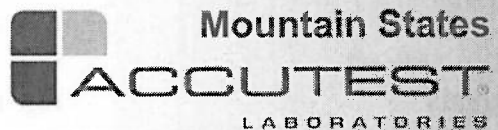
Summary of Hits

Page 2 of 2

Job Number: D66856
Account: K.P. Kauffman Company, Inc.
Project: Wattenberg Disposal Source Sampling
Collected: 01/21/15

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D66856-8	BOURER/GIBERGER					
Solids, Total Dissolved		24200	10		mg/l	SM 2540C-2011
Specific Conductivity		34100	1.0		umhos/cm	SM 2510B-2011
Specific Gravity by Hydrometer		1.0136				ASTM D287
pH ^a		6.83			su	SM4500HB+-2011/9040C

(a) Analysis performed past the required 15 minutes from collection time/holding time.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	OCOMA	Date Sampled:	01/21/15
Lab Sample ID:	D66856-1	Date Received:	01/21/15
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Wattenberg Disposal Source Sampling		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Specific Gravity by Hydromete	0.70860			1	01/23/15	MM	ASTM D287

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NOEL #3-18	Date Sampled:	01/21/15
Lab Sample ID:	D66856-2	Date Received:	01/21/15
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Wattenberg Disposal Source Sampling		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	3580	10	mg/l	1	01/26/15	JF	SM 2540C-2011
Specific Conductivity	5550	1.0	umhos/cm	1	01/23/15	TJ	SM 2510B-2011
Specific Gravity by Hydromete	1.0050			1	01/23/15	MM	ASTM D287
pH ^a	6.34		su	1	01/23/15 13:00	TB	SM4500HB+ -2011/9040C

(a) Analysis performed past the required 15 minutes from collection time/holding time.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: JACK C NOEL	Date Sampled: 01/21/15
Lab Sample ID: D66856-3	Date Received: 01/21/15
Matrix: AQ - Water	Percent Solids: n/a
Project: Wattenberg Disposal Source Sampling	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Specific Gravity by Hydromete	0.67030			1	01/23/15	MM	ASTM D287

RL = Reporting Limit

Report of Analysis

Client Sample ID: KOESTER #3-33-3

Lab Sample ID: D66856-4

Matrix: AQ - Water

Date Sampled: 01/21/15

Date Received: 01/21/15

Percent Solids: n/a

Project: Wattenberg Disposal Source Sampling

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	25500	10	mg/l	1	01/26/15	JF	SM 2540C-2011
Specific Conductivity	35000	1.0	umhos/cm	1	01/23/15	TJ	SM 2510B-2011
Specific Gravity by Hydromete	1.0151			1	01/23/15	MM	ASTM D287
pH ^a	6.17		su	1	01/23/15 13:00	TB	SM4500HB + -2011/9040C

(a) Analysis performed past the required 15 minutes from collection time/holding time.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	PACE CONNELLY 3&8	Date Sampled:	01/21/15
Lab Sample ID:	D66856-5	Date Received:	01/21/15
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Wattenberg Disposal Source Sampling		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	18800	10	mg/l	1	01/26/15	JF	SM 2540C-2011
Specific Conductivity	27500	1.0	umhos/cm	1	01/23/15	TJ	SM 2510B-2011
Specific Gravity by Hydromete	1.0107			1	01/23/15	MM	ASTM D287
pH ^a	6.75		su	1	01/23/15 13:00	TB	SM4500HB+ -2011/9040C

(a) Analysis performed past the required 15 minutes from collection time/holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BRIGGS	Date Sampled:	01/21/15
Lab Sample ID:	D66856-6	Date Received:	01/21/15
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Wattenberg Disposal Source Sampling		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	24700	10	mg/l	1	01/26/15	JF	SM 2540C-2011
Specific Conductivity	33700	1.0	umhos/cm	1	01/23/15	TJ	SM 2510B-2011
Specific Gravity by Hydromete	1.0136			1	01/23/15	MM	ASTM D287
pH ^a	7.06		su	1	01/23/15 13:00	TB	SM4500HB+-2011/9040C

(a) Analysis performed past the required 15 minutes from collection time/holding time.

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: UPRR 42 PAN AM N#4

Lab Sample ID: D66856-7

Matrix: AQ - Water

Project: Wattenberg Disposal Source Sampling

Date Sampled: 01/21/15

Date Received: 01/21/15

Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	20400	10	mg/l	1	01/26/15	JF	SM 2540C-2011
Specific Conductivity	28200	1.0	umhos/cm	1	01/23/15	TJ	SM 2510B-2011
Specific Gravity by Hydromete	1.0122			1	01/23/15	MM	ASTM D287
pH ^a	7.06		su	1	01/23/15 13:00	TB	SM4500HB+-2011/9040C

(a) Analysis performed past the required 15 minutes from collection time/holding time.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BOURER/GIBERGER	Date Sampled:	01/21/15
Lab Sample ID:	D66856-8	Date Received:	01/21/15
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Wattenberg Disposal Source Sampling		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	24200	10	mg/l	1	01/26/15	JF	SM 2540C-2011
Specific Conductivity	34100	1.0	umhos/cm	1	01/23/15	TJ	SM 2510B-2011
Specific Gravity by Hydromete	1.0136			1	01/23/15	MM	ASTM D287
pH ^a	6.83		su	1	01/23/15 13:00	TB	SM4500HB+-2011/9040C

(a) Analysis performed past the required 15 minutes from collection time/holding time.

RL = Reporting Limit



Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

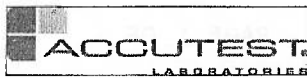
- Chain of Custody

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.acculast.com

[illegible]

5.

D66856: Chain of Custody
Page 1 of 3



CHAIN OF CUSTODY

PAGE 2 OF 2

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.accutest.comFED-EX Tracking #
Accutest Quote #
Bottle Order Control #
Accutest Job # D66856

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes	
Company Name K.P. KAUFFMAN COMPANY, INC.		Project Name WETLAND DISPOSAL SOURCE SAMPLING														DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WIP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address 1675 BROADWAY, STE. 2800		Street															
City DENVER, CO 80202		City															
Project Contact Susana Lara-Mesa		Project #															
Phone # 303-826-4822		Client Purchase Order #															
Sampler(s) Name(s) Max Knop		Project Manager															
Field ID / Point of Collection		MEQHC1 Val #														LAB USE ONLY	
Date		Time															
Sampled by		Matrix															
# of bottles		# of bottles															
NOI		NOI															
PHOS		PHOS															
NEDON		NEDON															
DO Water		DO Water															
MECH		MECH															
ENCODE		ENCODE															
Specific Gravity		Total Dissolved Solids															
pH		Specific Conductivity															
1/21/15		12:45														05	
Pace Connolly 3:8 Sample 1		W															
Pace Connolly 3:8 Sample 2																	
Pace Connolly 3:8 Sample 3																	
Briggs #1 Sample 1																06	
Briggs #2 Sample 2																1	
Briggs #3 Sample 3																	
UPPER 42 PAN AM N#4 Sample #1																07	
UPPER 42 PAN AM N#4 Sample #2																1	
UPPER 42 PAN AM N#4 Sample #3																	
Bauer/Gibson Sample 1																08	
Bauer/Gibson Sample 2																1	
Bauer/Gibson Sample 3																	
Turnaround Time (Business days)		Data Deliverable Information														Comments / Special Instructions	
<input checked="" type="checkbox"/> 7 Business Day Turn <input type="checkbox"/> 6 Business Day Turn <input type="checkbox"/> 4 Day Emergency <input type="checkbox"/> 3 Day Emergency <input type="checkbox"/> 2 Day Emergency <input type="checkbox"/> 1 Day Emergency		Approved By (Accutest PM): / Date:		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> COMMBN <input type="checkbox"/> COMMBN+ <input type="checkbox"/> State Forms Required <input type="checkbox"/> Send Forms to State <input type="checkbox"/> Report by Fax <input checked="" type="checkbox"/> Report by PDF <input type="checkbox"/> EDD Format * Please provide specific matrix information.													
Emergency & Rush: T/A data available via Lablink		Sample Custody must be documented below each time samples change possession, including courier delivery.														Fut Snell	
Relinquished by Sampler		Received By:															
1		Date Time: 1/21/2015, 15:25															
Relinquished by Sampler		Received By:															
3		Date Time:															
Relinquished by:		Received By:															
5		Date Time:															
Custody Seal #		Intact															
142		Not Intact															
Preserved where applicable		On Ice															
		Cooler Temp														15.2	

D66856: Chain of Custody

Page 2 of 3



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D66856

Client: KPK

Project:

Date / Time Received: 1/21/2015 3:25:00 PM

Delivery Method:

Airbill #'s: HD

Cooler Temps (Initial/Adjusted): #1: (15.3/15.3):

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Bar Therm: _____
3. Cooler media: Ice (Bag) _____
4. No. Coolers: 1

Quality Control Preservation

Y or N N/A

1. Trip Blank present / cooler: ☐ ☐ ☐
2. Trip Blank listed on COC: ☐ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☐ ☐ ☐

Comments

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐
5. Filtering instructions clear: ☐ ☐

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Wheat Ridge, CO
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D66856: Chain of Custody
Page 3 of 3

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D66856
Account: KPKCOD - K.P. Kauffman Company, Inc.
Project: Wattenberg Disposal Source Sampling

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN28371	10	0.0	mg/l	400	404	101.0	90-110%
Specific Conductivity	GP14481/GN28361			umhos/cm	99.4	98.2	98.8	90-110%
pH	GN28372			su	8.00	7.98	99.8	99.1-100.9%

Associated Samples:

Batch GN28371: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8

Batch GN28372: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8

Batch GP14481: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8

(*) Outside of QC limits

6.1

6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D66856
Account: KPKCOD - K.P. Kauffman Company, Inc.
Project: Wattenberg Disposal Source Sampling

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN28371	D66880-1A	mg/l	9480	9460	0.2	0-20%
Specific Conductivity	GP14481/GN28361	D66856-2	umhos/cm	5550	5570	0.4	0-20%

Associated Samples:

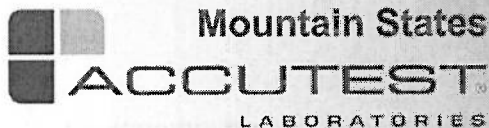
Batch GN28371: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8

Batch GP14481: D66856-2, D66856-4, D66856-5, D66856-6, D66856-7, D66856-8

(*) Outside of QC limits

6.2

6



03/16/15

Technical Report for

K.P. Kauffman Company, Inc.

Wattenberg Source Water

Accutest Job Number: D68414

Sampling Date: 03/10/15

Report to:

Apex Consulting Services
PO Box 369
Louisville, CO 80027-0369
slaramesa@kpk.com

ATTN: Susana Lara-Mesa

Total number of pages in report: 14



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "Scott Heideman".

Scott Heideman
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), TX (T104704511)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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-1-

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Sample Summary

K.P. Kauffman Company, Inc.

Job No: D68414

Wattenberg Source Water

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
D68414-1	03/10/15	09:35 MK	03/10/15	AQ Water	JACK C NOEL
D68414-2	03/10/15	10:45 MK	03/10/15	AQ Water	OCOMD



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: K.P. Kauffman Company, Inc.

Job No D68414

Site: Wattenberg GW

Report Date 3/16/2015 11:27:14 A

On 03/10/2015, 2 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 41.3 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D68414 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Wet Chemistry By Method ASTM D287

Matrix: ALL

Batch ID: GN29048

- The data for ASTM D287 meets quality control requirements.

Wet Chemistry By Method SM 2510B-2011

Matrix: AQ

Batch ID: GP14799

- Sample(s) D68315-1DUP were used as the QC samples for the Specific Conductivity analysis.

Wet Chemistry By Method SM 2540C-2011

Matrix: AQ

Batch ID: GN29012

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D68368-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

Wet Chemistry By Method SM4500HB+-2011/9040C

Matrix: AQ

Batch ID: GN28993

- D68414-1,-2 for pH: Analysis performed past the required 15 minutes from collection time/holding time.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Summary of Hits

Page 1 of 1

Job Number: D68414
Account: K.P. Kauffman Company, Inc.
Project: Wattenberg Source Water
Collected: 03/10/15

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

D68414-1 JACK C NOEL

Specific Gravity by Hydrometer	0.70260					ASTM D287
pH ^a	7.41				su	SM4500HB + -2011/9040C

D68414-2 OCOMD

Solids, Total Dissolved	19000	10			mg/l	SM 2540C-2011
Specific Conductivity	28400	1.0			umhos/cm	SM 2510B-2011
Specific Gravity by Hydrometer	1.0151					ASTM D287
pH ^a	6.54				su	SM4500HB + -2011/9040C

(a) Analysis performed past the required 15 minutes from collection time/holding time.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	JACK C NOEL	Date Sampled:	03/10/15
Lab Sample ID:	D68414-1	Date Received:	03/10/15
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Wattenberg Source Water		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	< 10	10	mg/l	1	03/12/15	JF	SM 2540C-2011
Specific Conductivity	< 1.0	1.0	umhos/cm	1	03/11/15	JD	SM 2510B-2011
Specific Gravity by Hydromete	0.70260			1	03/13/15	MM	ASTM D287
pH ^a	7.41		su	1	03/11/15 09:45	TB	SM4500HB+-2011/9040C

(a) Analysis performed past the required 15 minutes from collection time/holding time.

RL = Reporting Limit

Report of Analysis

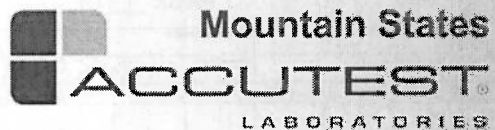
Client Sample ID: OCOMD	Date Sampled: 03/10/15
Lab Sample ID: D68414-2	Date Received: 03/10/15
Matrix: AQ - Water	Percent Solids: n/a
Project: Wattenberg Source Water	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	19000	10	mg/l	1	03/12/15	JF	SM 2540C-2011
Specific Conductivity	28400	1.0	umhos/cm	1	03/11/15	JD	SM 2510B-2011
Specific Gravity by Hydromete	1.0151			1	03/13/15	MM	ASTM D287
pH ^a	6.54		su	1	03/11/15 09:45	TB	SM4500HB + -2011/9040C

(a) Analysis performed past the required 15 minutes from collection time/holding time.

RL = Reporting Limit



Misc. Forms



Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.accedent.com

Client / Reporting Information				Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes				
Company Name K.P. KAUFFMAN COMPANY, INC.				Project Name: WATTENBERG WATER SOURCE				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Specific Gravity</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Dissolved Solids</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">pH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Specific Conductivity</div> </div>													DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WIP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TS - Trip Blank			
Street Address 1878 BROADWAY, STE. 2800				Street		State															Billing Information (If different from Report to) Company Name			
City DENVER, CO 80202				City		State															Street Address			
Project Contact Susana Lara-Mesa <small>slaramesa@kph.com</small>				Project #		Client Purchase Order #															City			
Phone # 303-625-4822				Project Manager		Attention:																		
Sampler(s) Name(s) Max Knop																								
Actual Sample # Field ID / Point of Collection JACK C. NOEL OCOMA				MECH/DI Vial #		Date Time Sampled by 3/10/15 9:35 MK		Matrix # of bottles 2		Number of preserved bottles HCl NaOH HNO3 H2SO4 H3PO4 HClO4 HNO2 DI Water DI Meth ENCODER														
						3/10/15 10:45 MK		2		X X X X X X X X												LAB USE ONLY 01 02		
<div style="position: absolute; right: 0; bottom: 0; font-size: 2em; transform: rotate(-45deg);"> </div>																								
Turnaround Time (Business days)				Data Deliverable Information				Comments / Special Instructions																
<input checked="" type="checkbox"/> 7 Business Day Turn <input type="checkbox"/> 5 Business Day Turn <input type="checkbox"/> 4 Day Emergency <input type="checkbox"/> 3 Day Emergency <input type="checkbox"/> 2 Day Emergency <input type="checkbox"/> 1 Day Emergency <input type="checkbox"/>				Approved By (Accust PM): / Date: _____ _____ _____				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> COMMBN <input type="checkbox"/> COMMBN+ <input type="checkbox"/>				<input type="checkbox"/> State Forms Required <input type="checkbox"/> Send Forms to State <input type="checkbox"/> Report by Fax <input checked="" type="checkbox"/> Report by PDF <input type="checkbox"/> BDD Format												
Emergency & Rush TIA data available VIA Linklink				Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial BN = Results/QC Narrative (+ = chromatograms)																				
Sample Custody must be documented below each time samples change possession, including courier delivery.																								
Relinquished by Sampler: 1 Max Knop				Date Time: 3/10/15 13:39				Received By: 1 Jacob P. A. 3/10/15				Relinquished By: 2				Date Time: 2								
Relinquished by Sampler: 3				Date Time: 3				Received By: 3				Relinquished By: 4				Date Time: 4								
Relinquished by: 6				Date Time: 6				Received By: 6				Custody Seal # Intact Preserved where applicable On Ice Cooler Temp. HTD <input checked="" type="checkbox"/> <input type="checkbox"/> TO <input checked="" type="checkbox"/> 41.3												

6

D68414: Chain of Custody

Page 1 of 2



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D68414

Client: K.P. KAUFFMAN COMPANY, INC

Project: WATTENBERG WATER SOURCE

Date / Time Received: 3/10/2015 1:39:00 PM

Delivery Method:

Airbill #'s: HD

Cooler Temps (Initial/Adjusted): #1: (41.3/41.3):

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: IR Gun;
3. Cooler media: Ice (Bag)
4. No. Coolers: 1

Quality Control Preservation

Y or N N/A

1. Trip Blank present / cooler: ☐ ☐ ☒
2. Trip Blank listed on COC: ☐ ☐ ☒
3. Samples preserved properly: ☒ ☐
4. VOCs headspace free: ☐ ☐ ☒

Comments

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐
5. Filtering instructions clear: ☐ ☐

5.1

5

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Wheat Ridge, CO
www.accutest.com

D68414: Chain of Custody
Page 2 of 2

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries



METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D68414
Account: KPKCOD - K.P. Kauffman Company, Inc.
Project: Wattenberg Source Water

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN29012	10	0.0	mg/l	400	399	99.8	90-110%
Specific Conductivity	GP14799/GN28995			umhos/cm	99.7	109	109.0	90-110%
pH	GN28993			su	8.00	7.97	99.6	99.1-100.9%

Associated Samples:

Batch GN28993: D68414-1, D68414-2

Batch GN29012: D68414-1, D68414-2

Batch GP14799: D68414-1, D68414-2

(*) Outside of QC limits

1.5



DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D68414
Account: KPKCOD - K.P. Kauffman Company, Inc.
Project: Wattenberg Source Water

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN29012	D68368-1	mg/l	400	413	3.2	0-20%
Specific Conductivity	GP14799/GN28995	D68315-1	umhos/cm	4540	4580	0.9	0-20%

Associated Samples:

Batch GN29012: D68414-1, D68414-2

Batch GP14799: D68414-1, D68414-2

(*) Outside of QC limits

6.2

6

March 17, 2015

Linda Bowling
Technical Enforcement Program – UIC
U.S. Environmental Protection Agency Region 8
1595 Wynkoop Street, Mail code 8ENF-W
Denver, CO 80202-1129

RE: Wattenberg Disposal, LLC
Class I Non-Hazardous Waste Disposal Well Permit No. CO10938-02115

Dear Ms. Bowling;

Wattenberg Disposal, LLC is submitting water source analyses from facilities with new formation Class II fluids that will be disposed of at the Suckla Farms #1 disposal well. These facilities include:

<u>Facility</u>	<u>Location</u>
1) Jack C Noel	NENW S18 T4N R65W
2) Ocoma	NENW S33 T4N R67W

The two (2) facilities listed above are exploration and production well site tank batteries owned and operated by K.P. Kauffman Company, Inc. The waste fluid being disposed of is produced water, which has been separated from the comingled liquid stream produced from each facility's associated wellhead(s).

Pursuant to Permit No. CO10938-02115 Section 5.a.(ii), Wattenberg Disposal, LLC requests approval for disposal of fluids from the new source waters listed above. A water analysis has been attached for each facility which consists of total dissolved solids, pH, specific gravity, and specific conductivity.

The analysis of the Jack C Noel water sampled indicates a lower than typical specific gravity expected for produced water. The lower specific gravity reading is attributed to the high sulfur content in the water sample, which created difficulties with the hydrometer measurement.

If you have any questions or comments, please contact me at (303) 825-4822 or at slaramesa@kpk.com.

Sincerely,
Wattenberg Disposal, LLC

Susana Lara-Mesa
Vice President of Engineering

Enclosures: New Source Waters Analyses

cc: KPK files